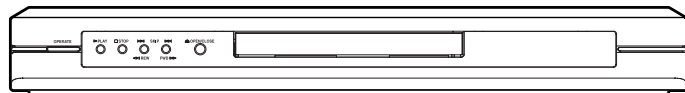


SHARP SERVICE MANUAL

S45S9DV-SL80/

SERVICE MANUAL

DVD VIDEO PLAYER



NTSC/PAL



---DV-SL80



---DV-SL80X

MODELS

DV-SL80
DV-SL80X

In the interests of user-safety (Required by safety regulations in some countries) the set should be restored to its original condition and only parts identical to those specified be used.

DVD VIDEO PLAYER

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MODELS DV-SL80/DV-SL80X

SPECIFICATIONS

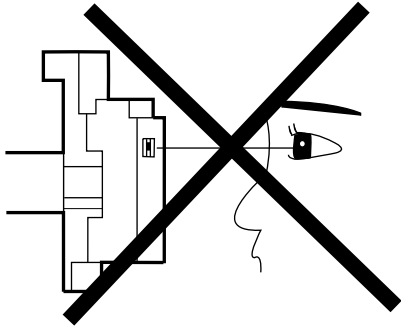
ITEM	CONDITIONS	UNIT	NOMINAL	LIMIT
1 Video Output	75 Ω	Vpp	1.0	± 0.1
2-1 Coaxial Digital Out		mVpp	500	
2-2 Optical Digital Out (DV-SL80X only)		dBm	-18	
3 Audio (PCM)				
3-1. Output Level	1 kHz 0 dB	Vrm	2.0	
3-2. S/N		dB	120	
3-3. Freq. Response				
DVD	fs=48 kHz 20 ~ 22 kHz	dB	± 0.5	
CD	fs=44.1 kHz 20 ~ 22 kHz	dB	± 0.5	
3-4. THD +N				
DVD	1k Hz 0 dB	%	0.0025	
CD	1k Hz 0 dB	%	0.003	
4 Power consumption	14 W (Standby: 2.0 W) --- [DV-SL80] 12 W (Standby: 1.5 W) --- [DV-SL80X]			
5 Weight	1.3kg			
6 Dimension	435 mm X 51 mm X 211 mm			

NOTES:

1. All Items are measured without pre-emphasis unless otherwise specified.
2. Power supply : AC110 - 240 V ~ 50/60Hz --- [DV-SL80]
AC220 - 240 V ~ 50/60Hz --- [DV-SL80X]
3. Load imp. : 100 k ohm
4. Room ambient : 5 °C ~ 40 °C

LASER BEAM SAFETY PRECAUTIONS

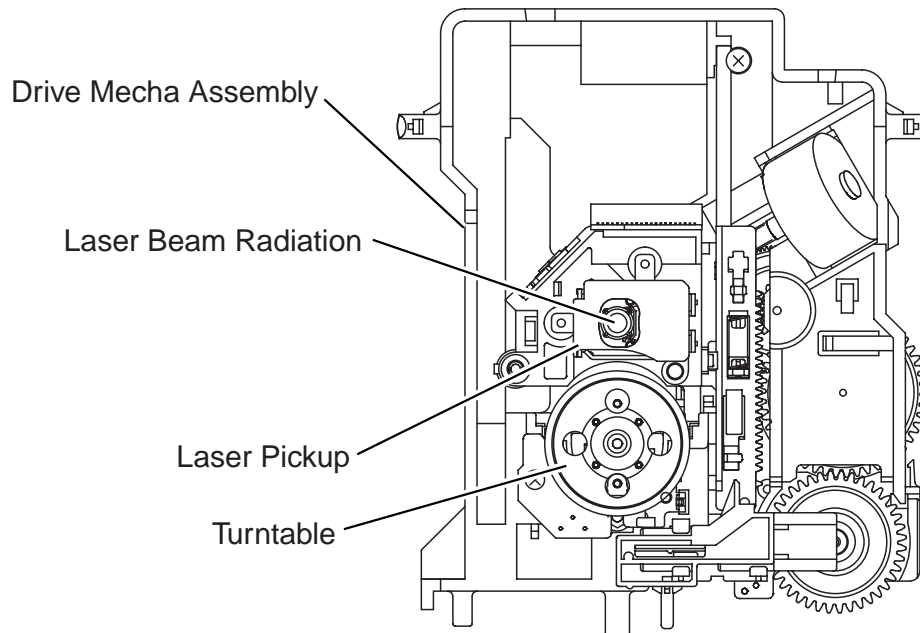
This DVD player uses a pickup that emits a laser beam.



Do not look directly at the laser beam coming from the pickup or allow it to strike against your skin.

The laser beam is emitted from the location shown in the figure. When checking the laser diode, be sure to keep your eyes at least 30cm away from the pickup lens when the diode is turned on. Do not look directly at the laser beam.

Caution: Use of controls and adjustments, or doing procedures other than those specified herein, may result in hazardous radiation exposure.



IMPORTANT SAFEGUARDS AND PRECAUTIONS

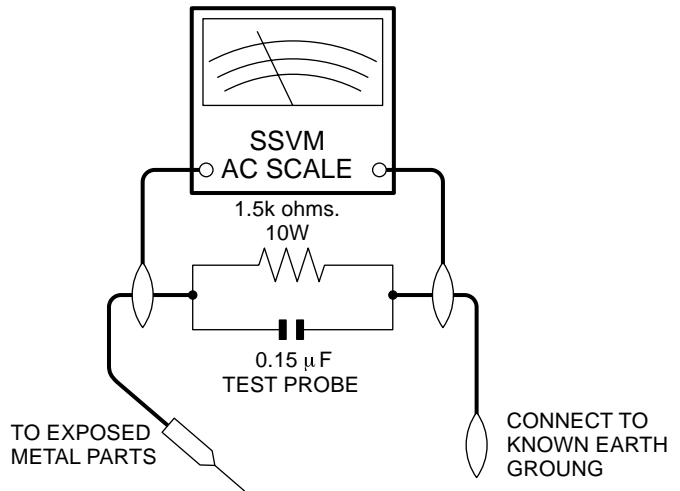
1. IMPORTANT SERVICE NOTES

BEFORE RETURNING THE DVD VIDEO PLAYER

Before returning the DVD video player to the user, perform the following safety checks.

1. Inspect all lead dress to make certain that leads are not pinched or that hardware is not lodged between the chassis and other metal parts in the DVD video player.
2. Inspect all protective devices such as non-metallic control knobs, insulation materials, cabinet backs, adjustment and compartment covers or shields, isolation resistor/capacitor networks, mechanical insulators etc.
3. To be sure that no shock hazard exists, check for current in the following manner.
 - Plug the AC line cord directly into a 230 volt AC outlet (Do not use an isolation transformer for this test).
 - Using two clip leads, connect a 1.5k ohm, 10 watt resistor paralleled by a 0.15 μ F capacitor in series with all exposed metal cabinet parts and a known earth ground, such as a water pipe or conduit.
 - Use an DVM or VOM with 1000 ohm per volt, or higher, sensitivity or measure the AC voltage drop across the resistor (See Diagram).
 - Move the resistor connection to earth exposed metal part having a return path to the chassis (metal cabinet, screw heads, knobs and control shafts, etc.) and measure the AC voltage drop across the resistor.

Reverse the AC plug on the set and repeat AC voltage measurements for each exposed part. Any reading of 1.4V rms (this corresponds to 0.7mA rms AC.) or more is excessive and indicates a potential shock hazard which must be corrected before returning the DVD video player to the owner.



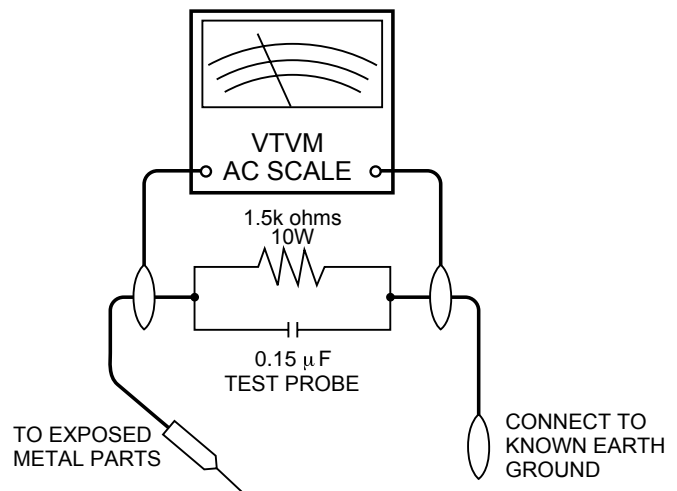
1. NOTES DE SERVICE IMPORTANTES

AVANT DE RENDRE LE REPRODUCTEUR DE VÉIDEO DVD

Avant de rendre le reproducteur de vidéo DVD à l'utilisateur, effectuer les vérifications de sécurité suivantes.

1. Vérifier toutes les gaines de fil pour être sûr que les fils ne sont pas pincés ou que le matériel n'est pas coincé entre le châssis et les autres pièces métalliques dans le reproducteur de vidéo DVD.
2. Vérifier tous les dispositifs de protection tels que les boutons de commande non métalliques, les matériaux d'isolement, le dos du coffret, les couvercles de compartiment et ajustement ou les boucliers, les réseaux de résistance / condensateur d'isolement, les isolateurs mécaniques, etc.
3. Pour être sûr qu'il n'y a aucun risque de choc électrique, vérifier le courant de fuite de la manière suivante.
 - Brancher le cordon d'alimentation secteur directement dans une prise de courant de 230 volts. (Ne pas utiliser de transformateur d'isolement pour cet essai).
 - Utiliser deux fils à pinces et connecter une résistance de 10 watts 1,5 kohm en parallèle avec un condensateur de 0,15 μ F en série avec des pièces du coffret métallique exposées et une masse de terre connue telle qu'un tuyau ou un conduit d'eau.
 - Utiliser un DVM ou VOM avec une sensibilité de 1000 ohms par volt ou plus ou mesurer la chute de tension CA entre la résistance (voir diagramme).
 - Déposer la connexion de la résistance à toutes les

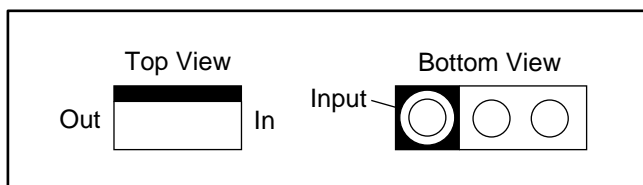
pièces métalliques exposées ayant un parcours de retour au châssis (coffret métallique, têtes de vis, boutons et arbres de commande, etc.) et mesurer la chute de tension CA entre la résistance. Inverser la fiche CA (une fiche intermédiaire non polarisée doit être utilisée à seule fin de faire ces vérifications.) sur l'appareil et répéter les mesures de tension CA pour chaque pièce métallique exposée. Toute lecture de 1,4 V rms (ceci correspond à 0,7 mA rms CA) ou plus est excessive et signale un danger de choc qui doit être corrigé avant de rendre le reproducteur de vidéo DVD à son utilisateur.



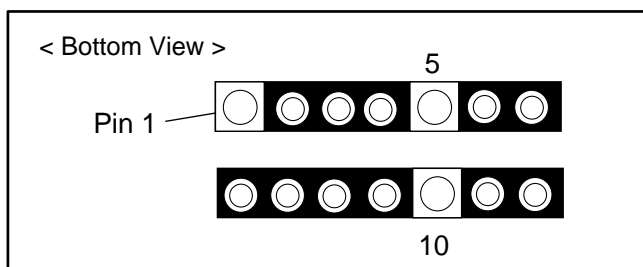
STANDARD NOTES FOR SERVICING

Circuit Board Indications

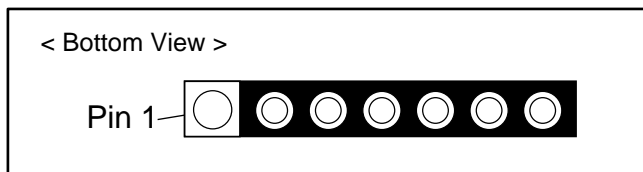
- a. The output pin of the 3 pin Regulator ICs is indicated as shown.



- b. For other ICs, pin 1 and every fifth pin are indicated as shown.

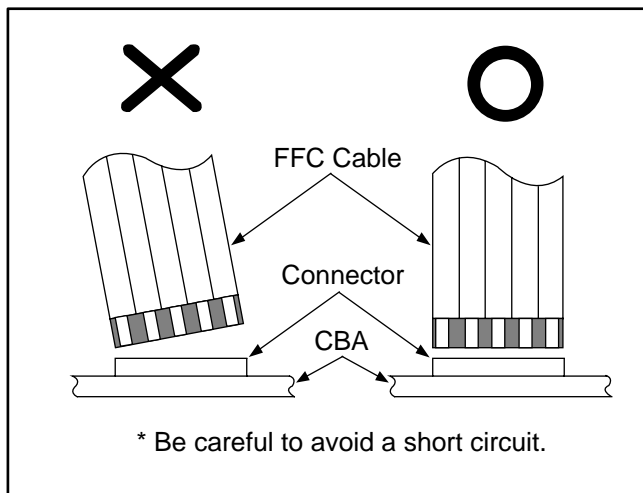


- c. The 1st pin of every male connector is indicated as shown.



Instructions for Connectors

- When you connect or disconnect the FFC (Flexible Foil Connector) cable, be sure to first disconnect the AC cord.
- FFC (Flexible Foil Connector) cable should be inserted parallel into the connector, not at an angle.



Using lead-free wire solder

When fixing the PWB soldered with the lead-free solder, apply lead-free wire solder. Repairing with conventional lead wire solder may cause damage or accident due to cracks.

As the melting point of lead-free solder (Sn-Ag-Cu) is higher than the lead wire solder by 40°C, we recommend you to use a dedicated soldering bit, if you are not familiar with how to obtain lead-free wire solder or soldering bit, contact our service station or service ranch in your area.

Soldering

As the melting point of lead-free solder (Sn-Ag-Cu) is about 220°C which is higher than the conventional lead solder by 40°C, and as it has poor solder wettability, you may be apt to keep the soldering bit in contact with the PWB for extended period of time. However, Since the land may be peeled off or the maximum heat-resistance temperature of parts may be exceeded, remove the bit from the PWB as soon as you confirm the steady soldering condition.

Lead-free solder contains more tin, and the end of the soldering bit may be easily corroded. Make sure to turn on and off the power of the bit as required. If a different type of solder stays on the tip of the soldering bit, it is alloyed with lead-free solder. Clean the bit after every use of it.

When the tip of the soldering bit is blackened during use, file it with steel wool or fine sandpaper.

Be careful when replacing parts with polarity indication on the PWB silk.

Lead-free wire solder for servicing

Part No.	★	Description	Code
ZHNDAi123250E	J	φ0.3mm 250g(1roll)	BL
ZHNDAi126500E	J	φ0.6mm 500g(1roll)	BK
ZHNDAi12801KE	J	φ1.0mm 1kg(1roll)	BM

How to Remove / Install Flat Pack-IC

1. Removal

With Hot-Air Flat Pack-IC Desoldering Machine:

- (1) Prepare the hot-air flat pack-IC desoldering machine, then apply hot air to the Flat Pack-IC (about 5 to 6 seconds). (Fig. S-1-1)

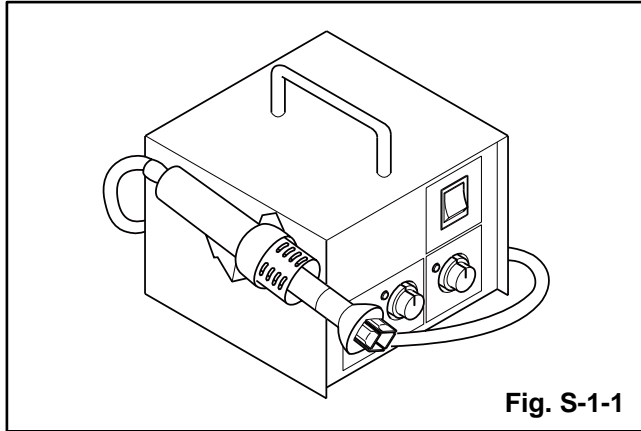


Fig. S-1-1

- (2) Remove the flat pack-IC with tweezers while applying the hot air.
- (3) Bottom of the flat pack-IC is fixed with glue to the CBA; when removing entire flat pack-IC, first apply soldering iron to center of the flat pack-IC and heat up. Then remove (glue will be melted). (Fig. S-1-6)
- (4) Release the flat pack-IC from the CBA using tweezers. (Fig. S-1-6)

Caution:

1. Do not supply hot air to the chip parts around the flat pack-IC for over 6 seconds because damage to the chip parts may occur. Put masking tape around the flat pack-IC to protect other parts from damage. (Fig. S-1-2)
2. The flat pack-IC on the CBA is affixed with glue, so be careful not to break or damage the foil of each pin or the solder lands under the IC when removing it.

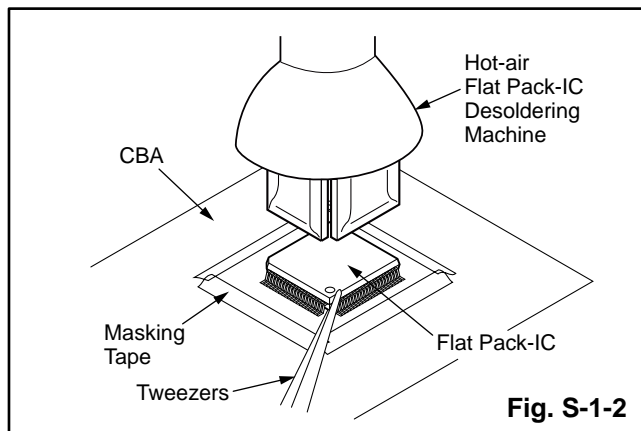


Fig. S-1-2

With Soldering Iron:

- (1) Using desoldering braid, remove the solder from all pins of the flat pack-IC. When you use solder flux which is applied to all pins of the flat pack-IC, you can remove it easily. (Fig. S-1-3)

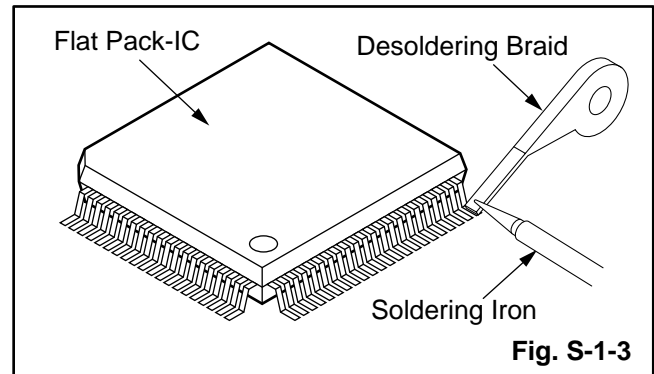


Fig. S-1-3

- (2) Lift each lead of the flat pack-IC upward one by one, using a sharp pin or wire to which solder will not adhere (iron wire). When heating the pins, use a fine tip soldering iron or a hot air desoldering machine. (Fig. S-1-4)

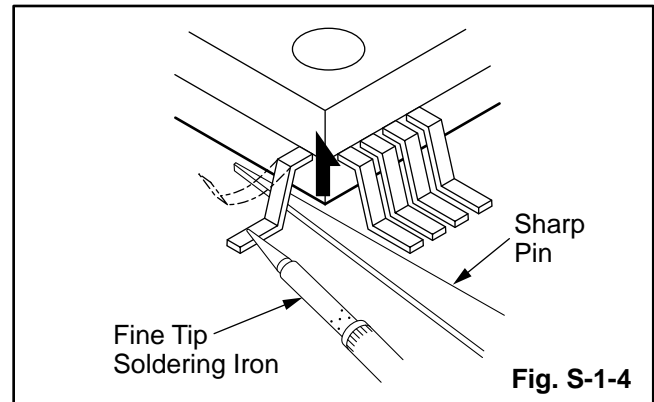


Fig. S-1-4

- (3) Bottom of the flat pack-IC is fixed with glue to the CBA; when removing entire flat pack-IC, first apply soldering iron to center of the flat pack-IC and heat up. Then remove (glue will be melted). (Fig. S-1-6)
- (4) Release the flat pack-IC from the CBA using tweezers. (Fig. S-1-6)

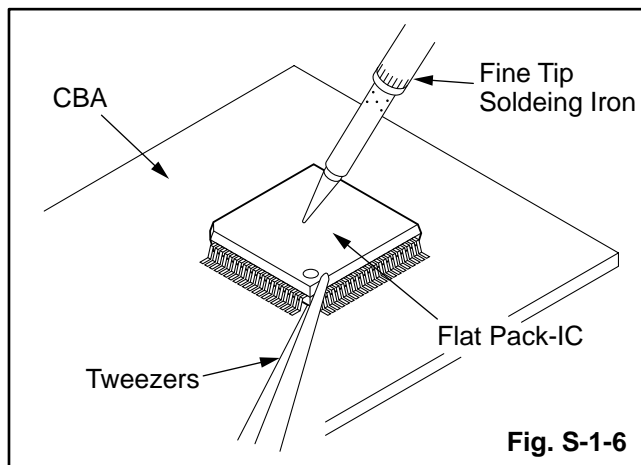
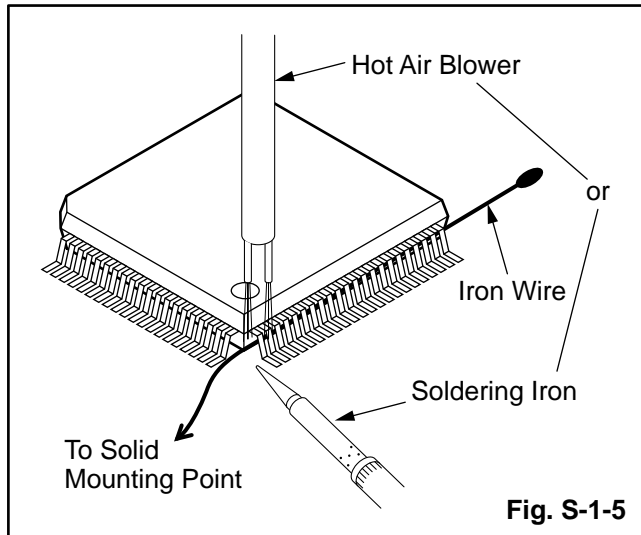
With Iron Wire:

- (1) Using desoldering braid, remove the solder from all pins of the flat pack-IC. When you use solder flux which is applied to all pins of the flat pack-IC, you can remove it easily. (Fig. S-1-3)
- (2) Affix the wire to a workbench or solid mounting point, as shown in Fig. S-1-5.
- (3) While heating the pins using a fine tip soldering iron or hot air blower, pull up the wire as the solder melts so as to lift the IC leads from the CBA contact pads as shown in Fig. S-1-5.

- (4) Bottom of the flat pack-IC is fixed with glue to the CBA; when removing entire flat pack-IC, first apply soldering iron to center of the flat pack-IC and heat up. Then remove (glue will be melted). (Fig. S-1-6)
- (5) Release the flat pack-IC from the CBA using tweezers. (Fig. S-1-6)

Note:

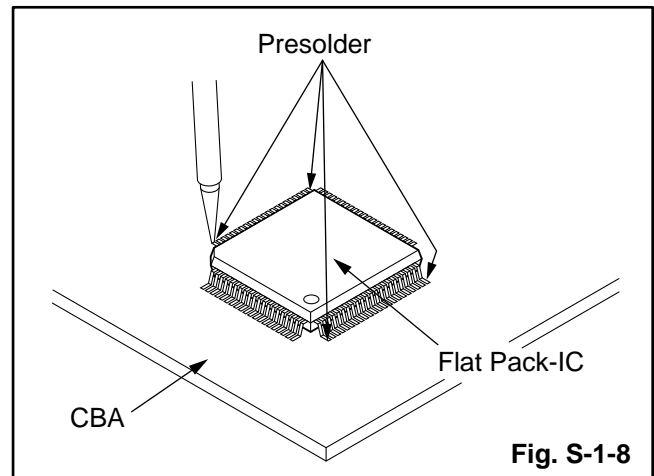
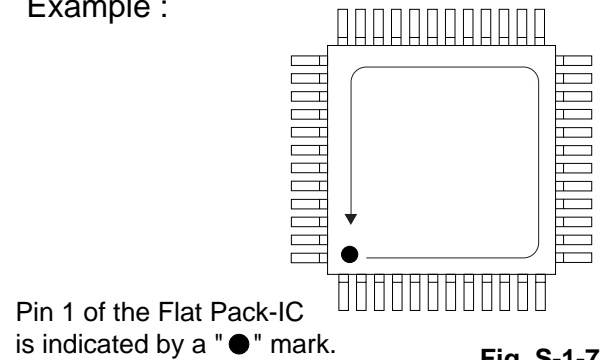
When using a soldering iron, care must be taken to ensure that the flat pack-IC is not being held by glue. When the flat pack-IC is removed from the CBA, handle it gently because it may be damaged if force is applied.



2. Installation

- (1) Using desoldering braid, remove the solder from the foil of each pin of the flat pack-IC on the CBA so you can install a replacement flat pack-IC more easily.
- (2) The "●" mark on the flat pack-IC indicates pin 1. (See Fig. S-1-7.) Be sure this mark matches the 1 on the PCB when positioning for installation. Then presolder the four corners of the flat pack-IC. (See Fig. S-1-8.)
- (3) Solder all pins of the flat pack-IC. Be sure that none of the pins have solder bridges.

Example :



Instructions for Handling Semi-conductors

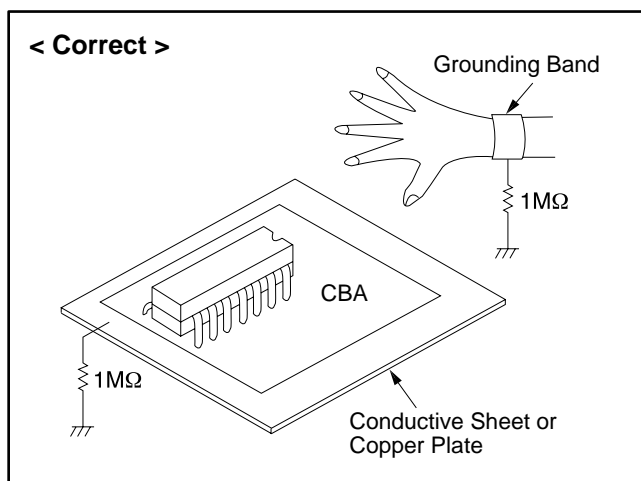
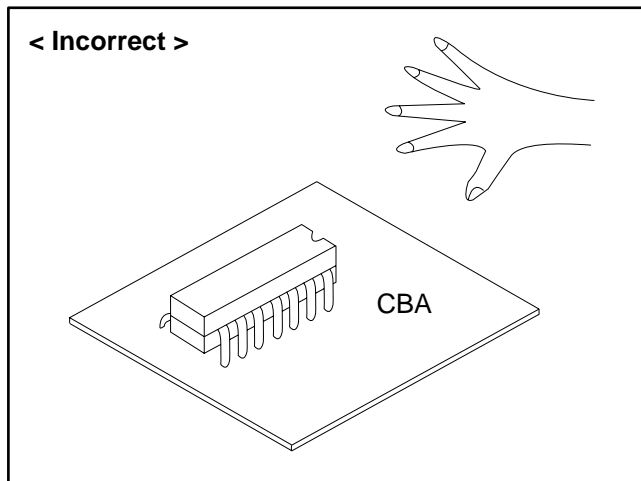
Electrostatic breakdown of the semi-conductors may occur due to a potential difference caused by electrostatic charge during unpacking or repair work.

1. Ground for Human Body

Be sure to wear a grounding band ($1M\Omega$) that is properly grounded to remove any static electricity that may be charged on the body.

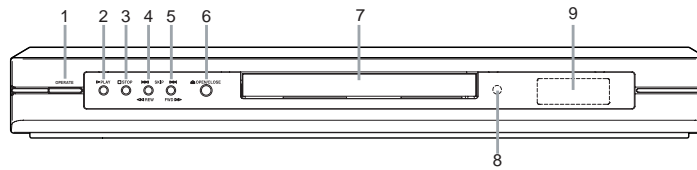
2. Ground for Workbench

Be sure to place a conductive sheet or copper plate with proper grounding ($1M\Omega$) on the workbench or other surface, where the semi-conductors are to be placed. Because the static electricity charge on clothing will not escape through the body grounding band, be careful to avoid contacting semi-conductors with your clothing.



OPERATING CONTROLS AND FUNCTIONS

FRONT PANEL

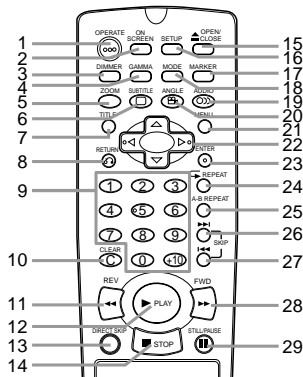


REAR VIEW



1. **OPERATE**
to switch the player to ON or OFF
 2. **PLAY**
to start or resume disc playback
 3. **STOP**
to stop playback
 4. **SKIP ◀◀ / REV ◀◀**
goes to previous chapter or track during playback; press and hold for 1.5 seconds for a reverse search
 5. **SKIP ▶▶ / FWD ▶▶**
goes to next chapter or track during playback; press and hold for 1.5 seconds for a forward search
 6. **OPEN/CLOSE**
to open/close the disc tray
 7. **Disc tray**
 8. **Remote sensor window**
 9. **Display**
 10. **MAINS (AC Power Cord)**
connect to a standard AC outlet
 11. **OPTICAL (Digital audio out)**
connect to digital (optical) audio equipment (DV-SL80X only)
 12. **COAXIAL (Digital audio out)**
connect to AUDIO inputs of a digital (coaxial) audio equipment
 13. **AUDIO OUT (Left/Right)**
connect to AUDIO inputs of an amplifier, receiver or stereo system
 14. **VIDEO OUT**
connect to the Video Input of a TV
 15. **COMPONENT VIDEO OUT**
connect to a TV with Component video in jacks
 16. **S-VIDEO OUT**
connect to a TV with S-Video inputs
- CAUTION:**
- Do not touch the inner pins of the jacks on the rear panel. Electrostatic discharge may cause permanent damage to the player.

REMOTE CONTROL

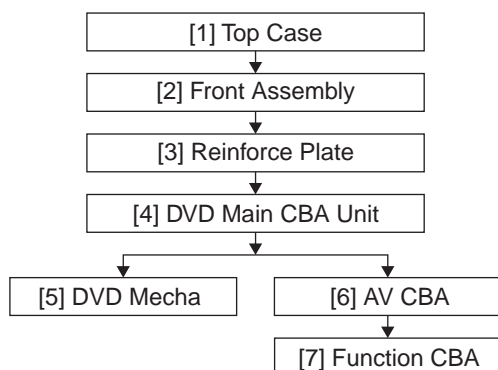


1. **OPERATE Button**
Press to turn the power on and off.
2. **ON SCREEN Button**
Displays the current status on the TV screen for checking purposes.
3. **DIMMER Button**
Press to change the Panel Display settings.
4. **GAMMA Button**
Press to adjust the black parts of the picture brighter.
5. **ZOOM Button**
Enlarges part of a DVD-reproduced image.
6. **SUBTITLE Button**
Press to select a desired subtitle language.
7. **TITLE Button**
Displays the title menu.
8. **RETURN Button**
Returns to the previous operation.
9. **Numerical Buttons**
10. **CLEAR Button**
Resets a setting.
11. **REV Button**
Fast reverse playback to a desired point.
12. **PLAY Button**
Starts playback of the disc contents.
13. **DIRECT SKIP Button**
Press to locate a desired point.
14. **STOP Button**
Stops operation of the disc.
15. **OPEN/CLOSE Button**
Press to insert discs into or remove them from the tray.
16. **SETUP Button**
Press to enter the setup mode or to change setup items.
17. **MARKER Button**
Press to call back the Marker display.
18. **MODE Button**
Activates programme playback or random playback mode. (CD/MP3/JPEG)
Activates the 3D sound or Rapid Play. (DVD)
19. **AUDIO Button**
Press to select a desired audio language or sound mode.
20. **ANGLE Button**
Press to change the camera angle to see the sequence being played back from a different angle.
21. **MENU Button**
Displays the DVD menus and MP3 file lists.
22. **Arrow Buttons (◀ ▶ ▲ ▼)**
(left/right/up/down) Select an item in the menu.
23. **ENTER Button**
Press to accept a setting.
24. **REPEAT Button**
Repeats playback of the current disc, title, chapter or track.
25. **A-B REPEAT Button**
Repeats playback of a selected section.
26. **SKIP ▶▶ Button**
Plays back from the beginning of the next chapter or track.
27. **SKIP ◀◀ Button**
Plays back from the beginning of the current chapter or track.
28. **FWD Button**
Fast forwards playback to a desired point.
29. **STILL/PAUSE Button**
Pause playback temporarily/frame-by-frame playback.

CABINET DISASSEMBLY INSTRUCTIONS

1. Disassembly Flowchart

This flowchart indicates the disassembly steps to gain access to item(s) to be serviced. When reassembling, follow the steps in reverse order. Bend, route, and dress the cables as they were originally.



2. Disassembly Method

ID/ LOC. No.	PART	REMOVAL		
		Fig. No.	REMOVE/ *UNHOOK/UNLOCK/ RELEASE/UNPLUG/ DESOLDER	Note
[1]	Top Case	1	3(S-1)	-
[2]	Front Assembly	2	*4(L-1), *3(L-2), *3(L-3),	1 1-1 1-2
[3]	Reinforce Plate	3	3(S-2)	-
[4]	DVD Main CBA Unit	4	(S-3A), (S-3B), *CN201, *CN301, *CN401, *CN601	2 2-1 2-2 3
[5]	DVD Mecha	5	4(S-4)	-
[6]	AV CBA	6	(S-5), 4(S-6)---[DV-SL80] 5(S-6)---[DV-SL80X], *2(L-5)	-
[7]	Function CBA	6	*CN2001	-

↑
①

↑
②

↑
③

↑
④

↑
⑤

- ① : Identification (location) No. of parts in the figures
 ② : Name of the part
 ③ : Figure Number for reference
 ④ : Identification of parts to be removed, unhooked, unlocked, released, unplugged, unclamped, or de-soldered.
 P=Spring, L=Locking Tab, S=Screw,
 CN=Connector,
 *=Unhook, Unlock, Release, Unplug, or Desolder
 e.g. 5(S-1) = five Screws (S-1),
 2(L-2) = two Locking Tabs (L-2)
 ⑤ : Refer to "Reference Notes."

About tightening screws

When tightening screws, tighten them with the following torque.

Screws	Torque
(S-1), (S-2), (S-3A), (S-4), (S-5), (S-6)	$0.45 \pm 0.05 \text{ N}\cdot\text{m}$
(S-3B)	$0.38 \pm 0.04 \text{ N}\cdot\text{m}$

Reference Notes

CAUTION 1: Locking Tabs (L-1), (L-2) and (L-3) are fragile. Be careful not to break them.

1-1. Release four Locking Tabs (L-1). Then, release three Locking Tabs (L-2) .

1-2. Release three Locking Tabs (L-3). Then remove the Front Assembly.

CAUTION 2: Electrostatic breakdown of the laser diode in the optical system block may occur as a potential difference caused by electrostatic charge accumulated on cloth, human body etc., during unpacking or repair work.

To avoid damage of pickup follow next procedures.

2-1. Short the three short lands (either of two places) of FPC cable with solder before removing the FFC cable (CN201) from it as shown in "View for A" in Fig. 4. If you disconnect the FFC cable (CN201), the laser diode of pickup will be destroyed. (Fig. 4)

2-2. Disconnect Connectors (CN301), (CN401) and (CN601). Remove two Screws (S-3A) and (S-3B) and lift the DVD Main CBA Unit. (Fig. 4)

CAUTION 3: When reassembling, confirm the FFC cable (CN201) is connected completely. Then remove the solder from the three short lands of FPC cable. (Fig. 4)

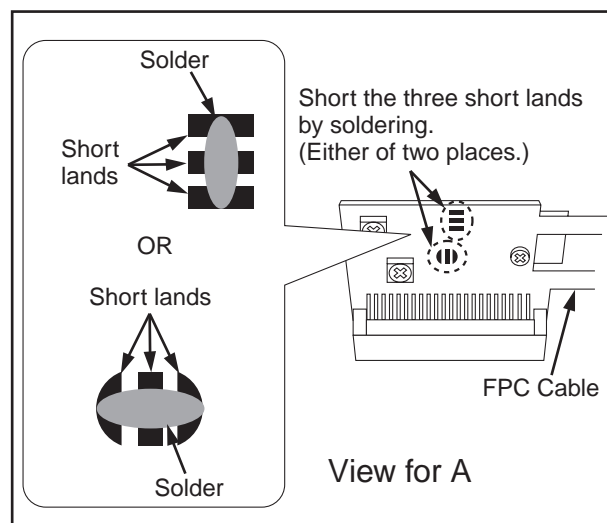
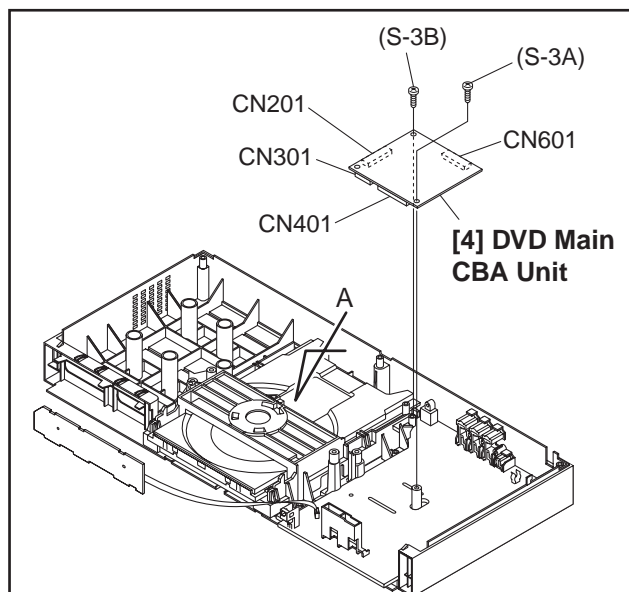
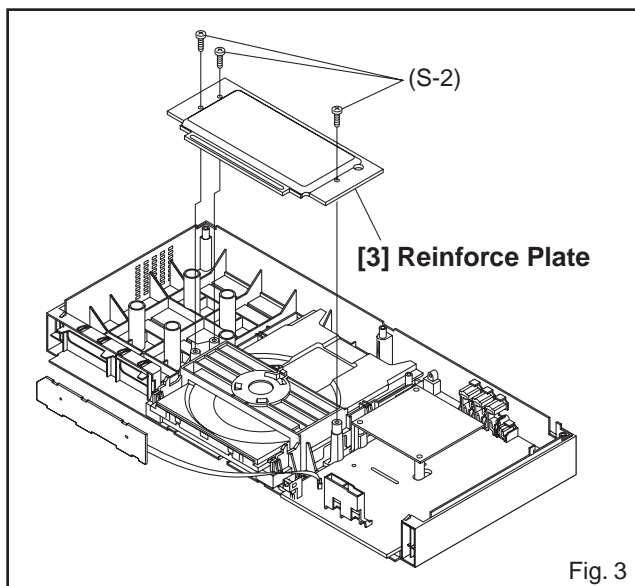
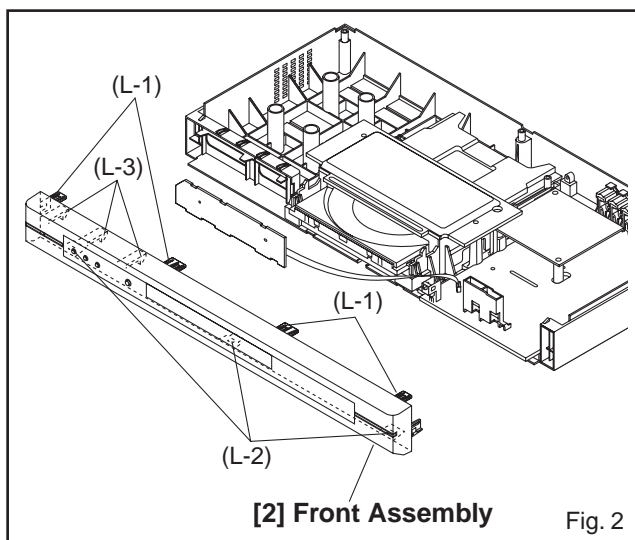
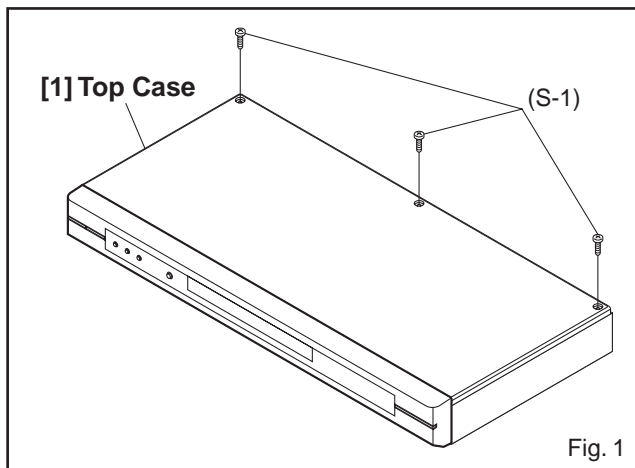
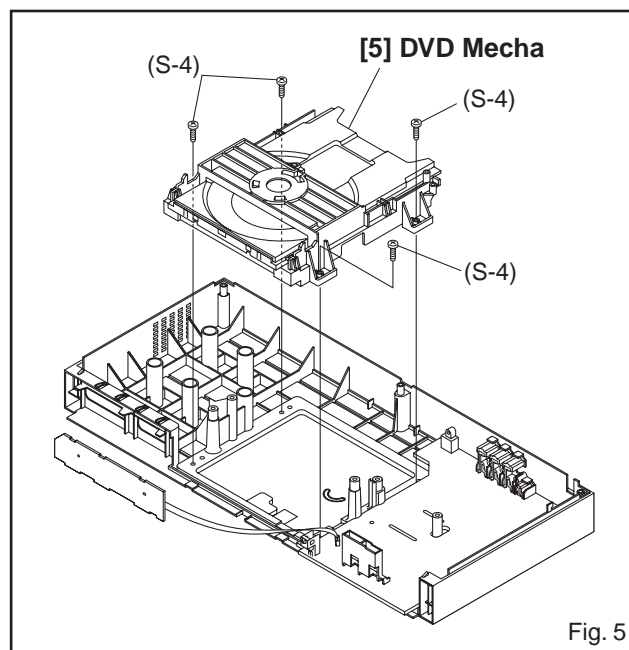
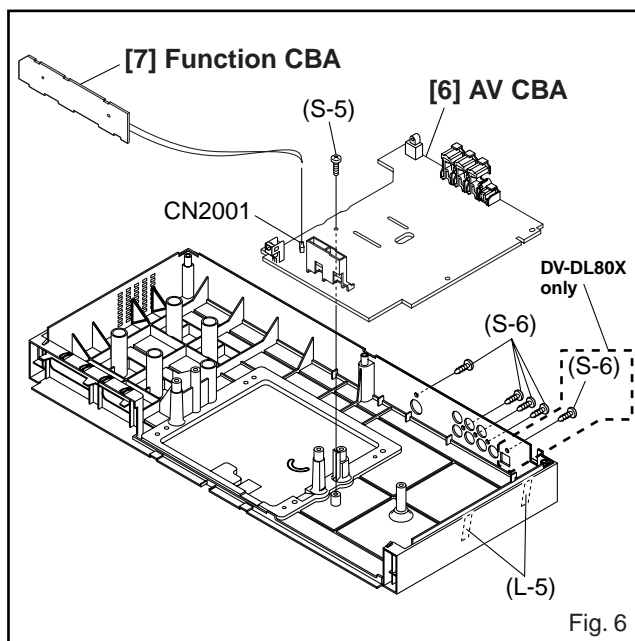


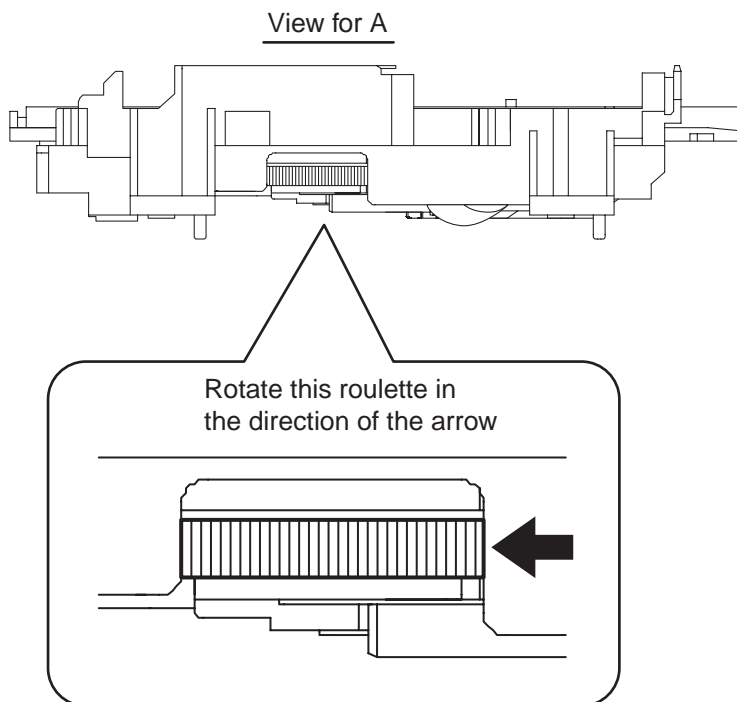
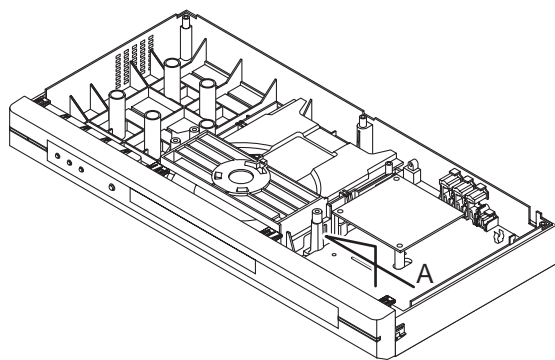
Fig. 4





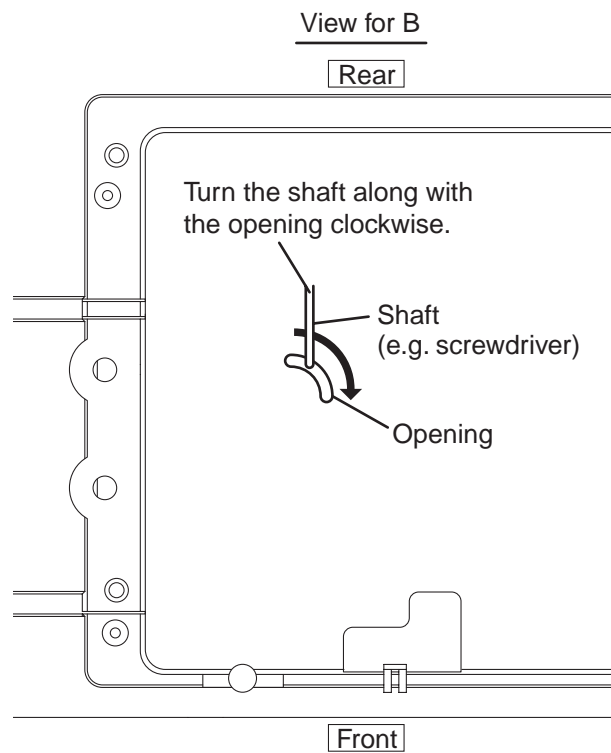
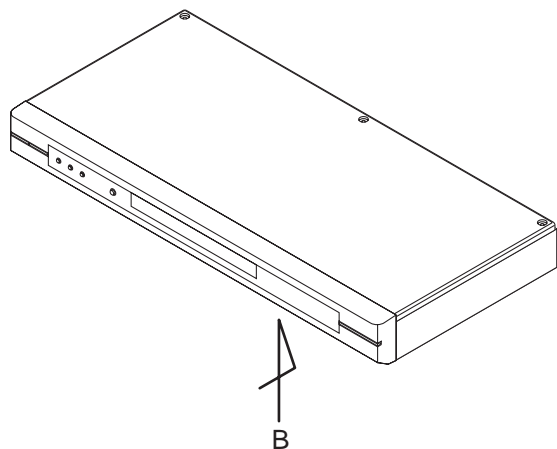
HOW TO EJECT MANUALLY (Method 1)

- 1 Remove the Top Case.
- 2 Remove the Reinforce Plate.
- 3 Rotate the roulette in the direction of the arrow as shown below.



HOW TO EJECT MANUALLY (Method 2)

- 1 Turn the unit over.
- 2 Insert the shaft less than a diameter of 3 mm (e.g. screwdriver) straightly into the opening as shown.
- 3 Turn the shaft along with the opening clockwise.
- 4 Repeat steps 2 and 3 until the tray will open.
- 5 Pull the tray slowly with a hand.



FIRMWARE RENEWAL MODE

FIRMWARE is built-in program to operate DVD player. To get rid of error when playing new software (disc) in the market, FIRMWARE version is updated. Perform the following to update the FIRMWARE version.

1. Turn the power on and remove the disc on the tray.
2. To put the DVD player into version up mode, press [9], [8], [7], [6], and [DIRECT SKIP] buttons on the remote control unit in that order. The tray will open automatically.
Fig. a appears on the screen and Fig. b appears on the VFD.

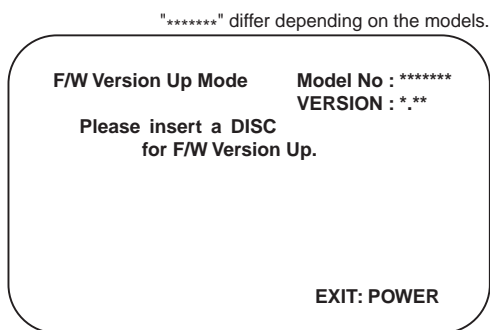


Fig. a Version Up Mode Screen

bE-UP

Fig. b VFD in Version Up Mode

The DVD player can also enter the version up mode with the tray open. In this case, Fig. a will be shown on the screen while the tray is open.

3. Load the disc for version up.
4. The DVD player enters the F/W version up mode automatically. Fig. c appears on the screen and Fig. d appears on the VFD. If you enter the F/W for different models, "Disc Error" will appear on the screen, then the tray will open automatically.

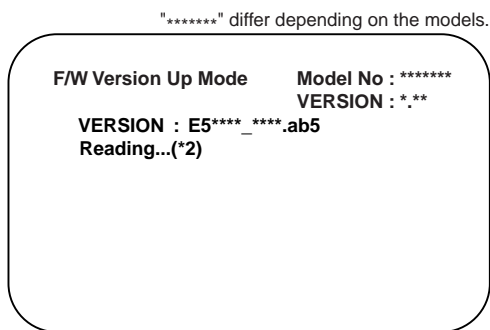


Fig. c Programming Mode Screen

100

Fig. d VFD in Programming Mode (Example)

The appearance shown in (*2) of Fig. c is described as follows:

No.	Appearance	State
1	Reading...	Sending files into the memory
2	Erasing...	Erasing previous version data
3	Programming...	Writing new version data

5. After programming is finished, the tray opens automatically. Fig. e appears on the screen and the checksum in (*3) of Fig. e appears on the VFD. (Fig. f)

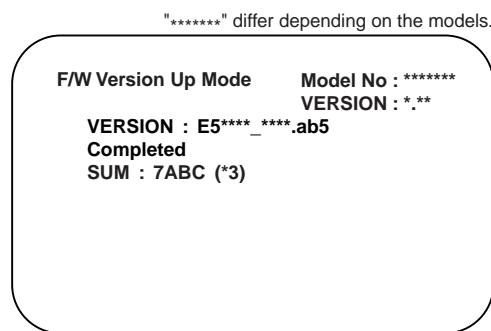


Fig. e Completed Program Mode Screen

7ABC

Fig. f VFD upon Finishing the Programming Mode (Example)

At this time, no buttons are available.

6. Remove the disc on the tray.
7. Unplug the AC cord from the AC outlet. Then plug it again.
8. Turn the power on by pressing the [OPERATE] button and the tray will close.
9. Press [1], [2], [3], [4], and [ON SCREEN] buttons on the remote control unit in that order.
Fig. g appears on the screen.

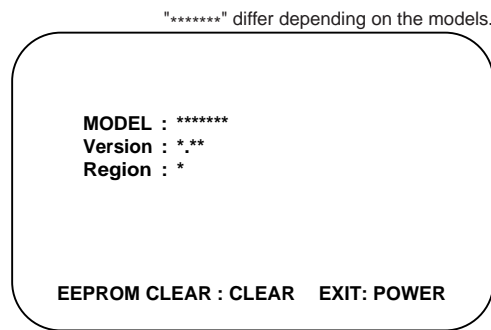


Fig. g

10. Press [CLEAR] button on the remote control unit.
Fig. h appears on the screen.

"*****" differ depending on the models.

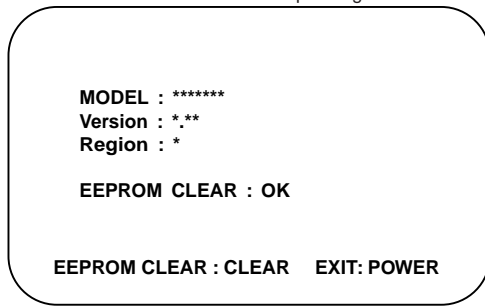


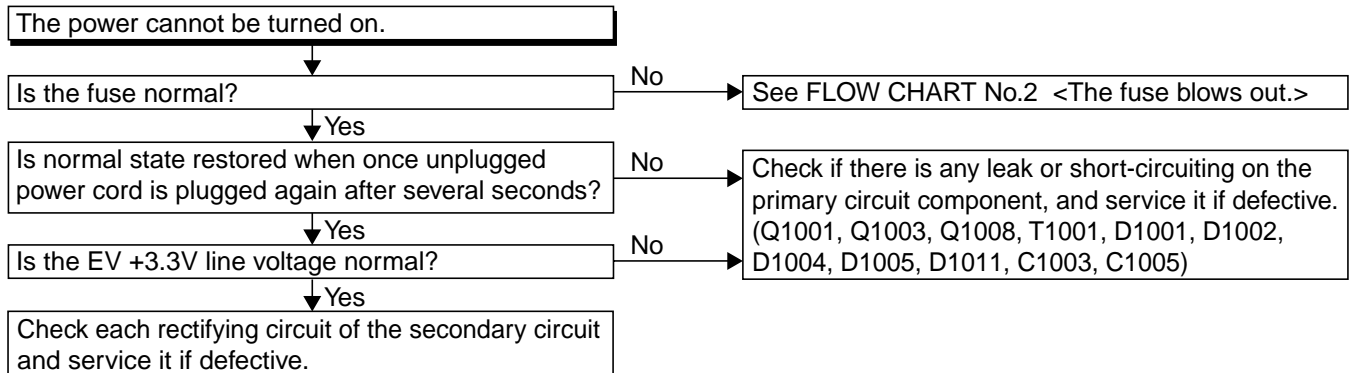
Fig. h

When "OK" appears on the screen, the factory default will be set. Then the firmware renewal mode is complete.

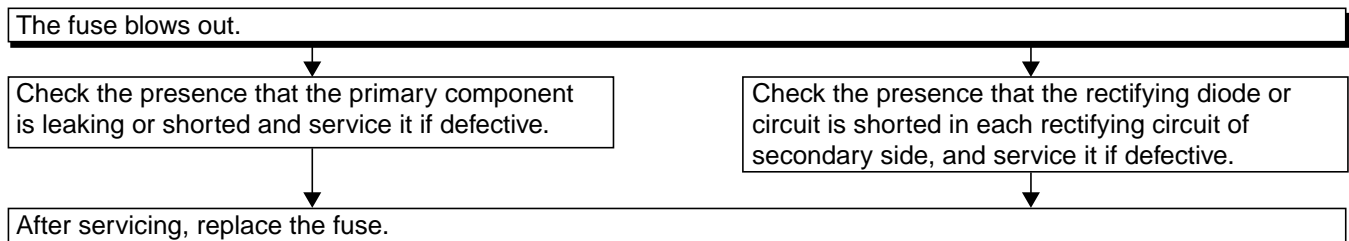
11. To exit this mode, press [OPERATE] button.

TROUBLESHOOTING

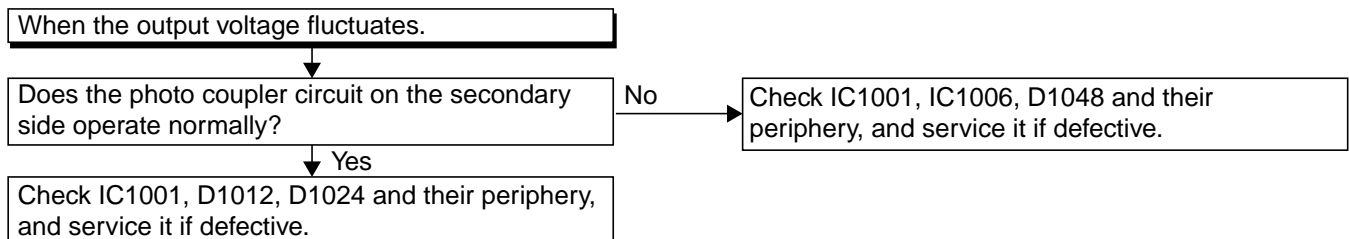
FLOW CHART NO.1



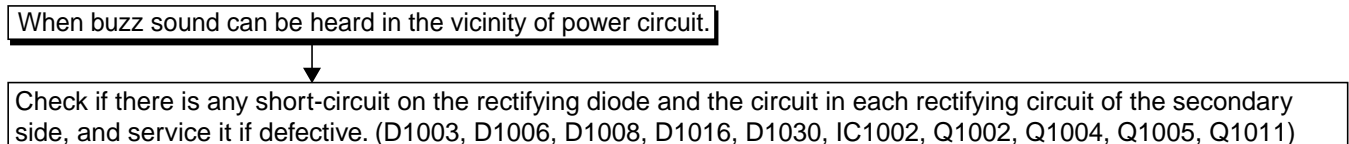
FLOW CHART NO.2



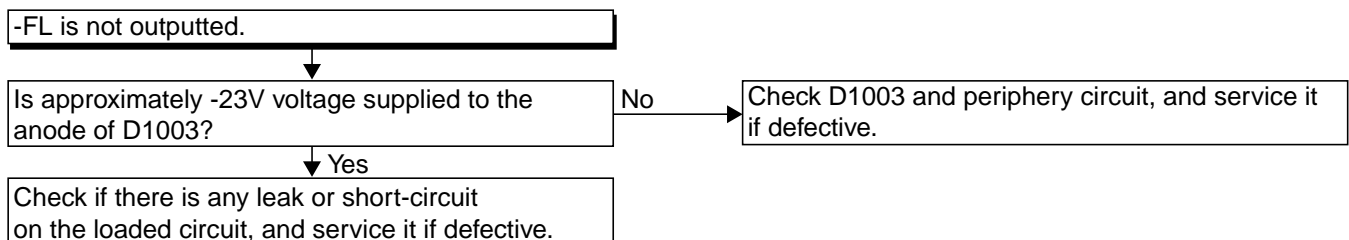
FLOW CHART NO.3



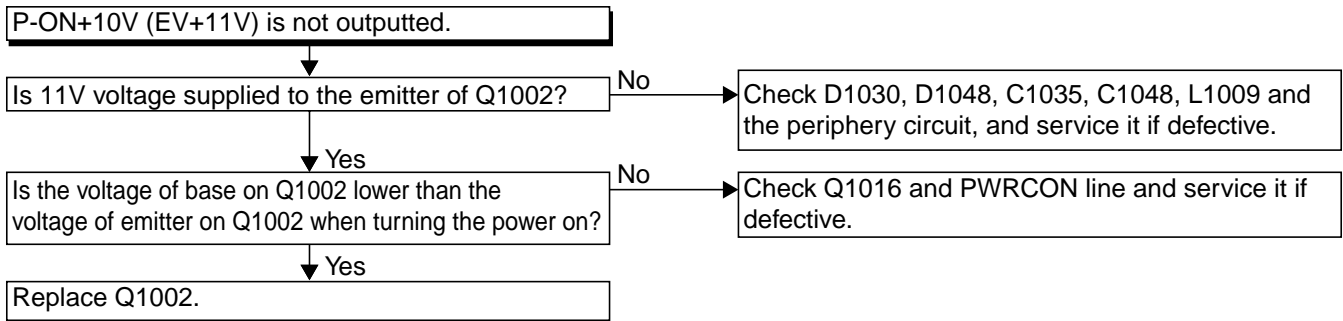
FLOW CHART NO.4



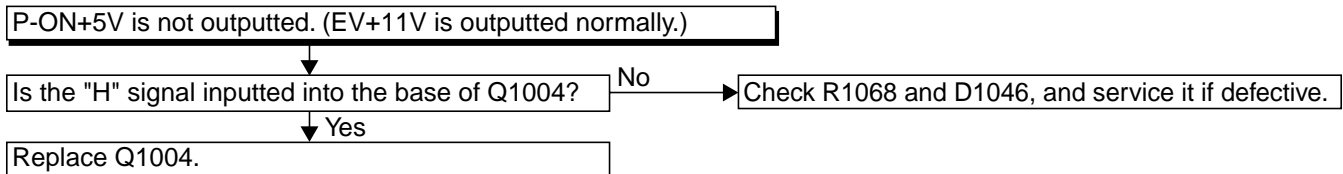
FLOW CHART NO.5



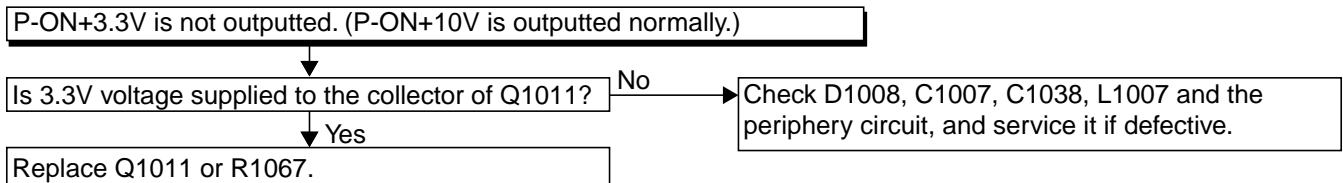
FLOW CHART NO.6



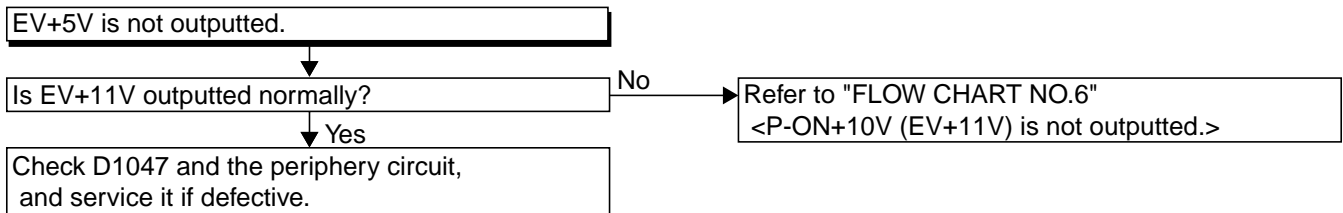
FLOW CHART NO.7



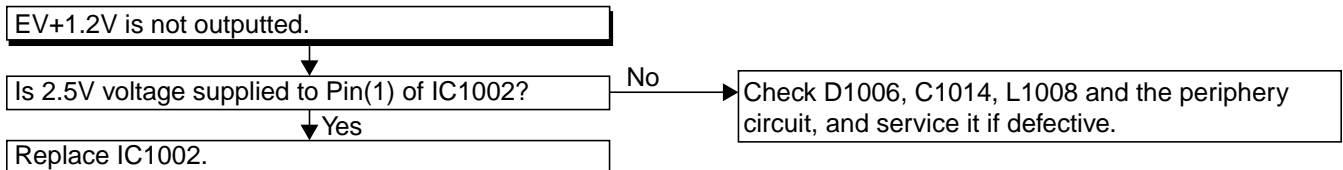
FLOW CHART NO.8



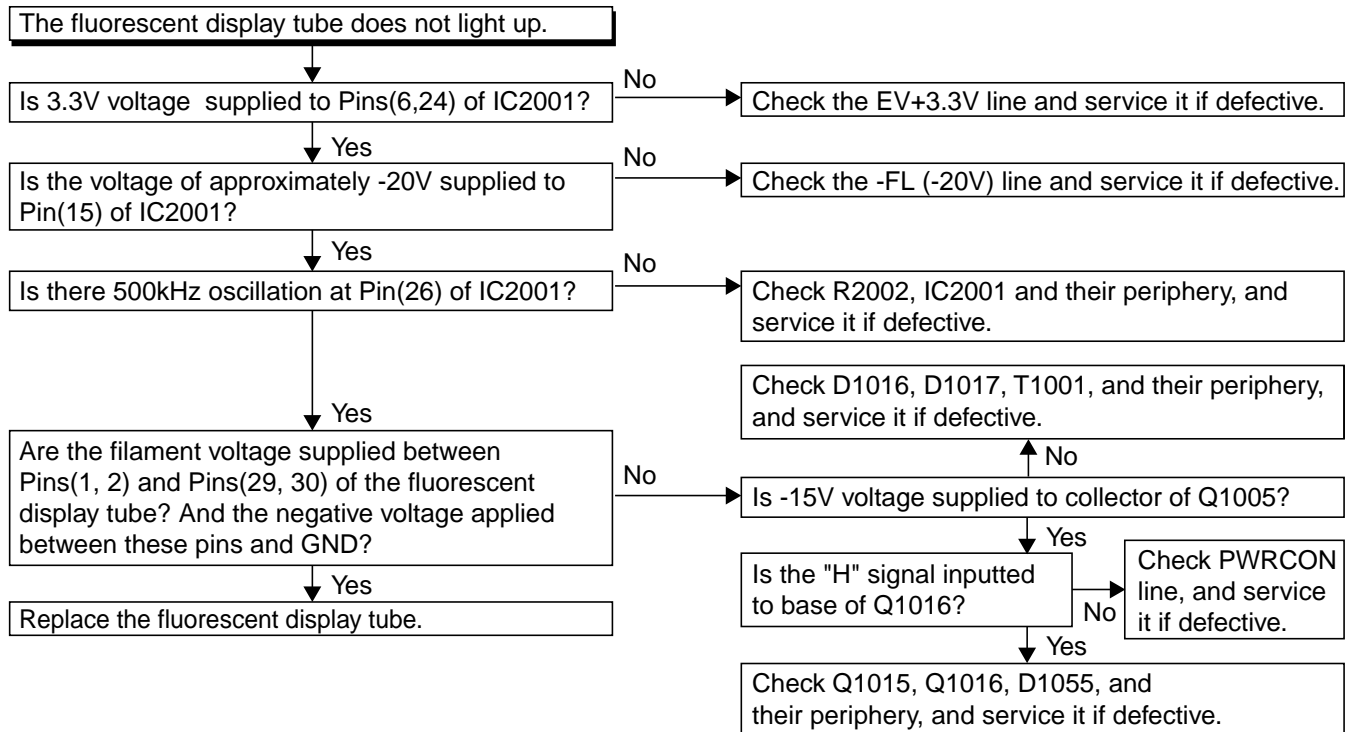
FLOW CHART NO.9



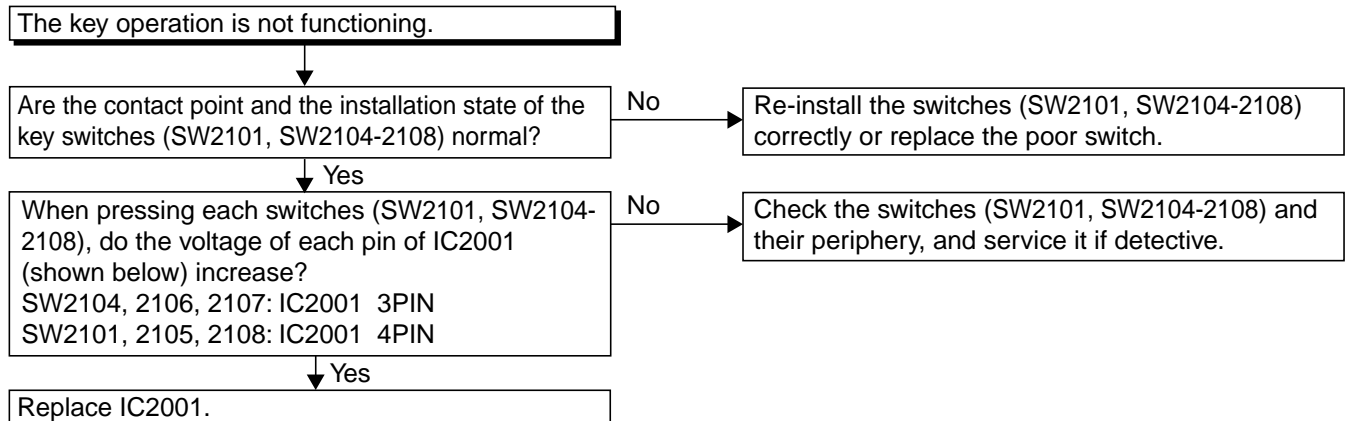
FLOW CHART NO.10



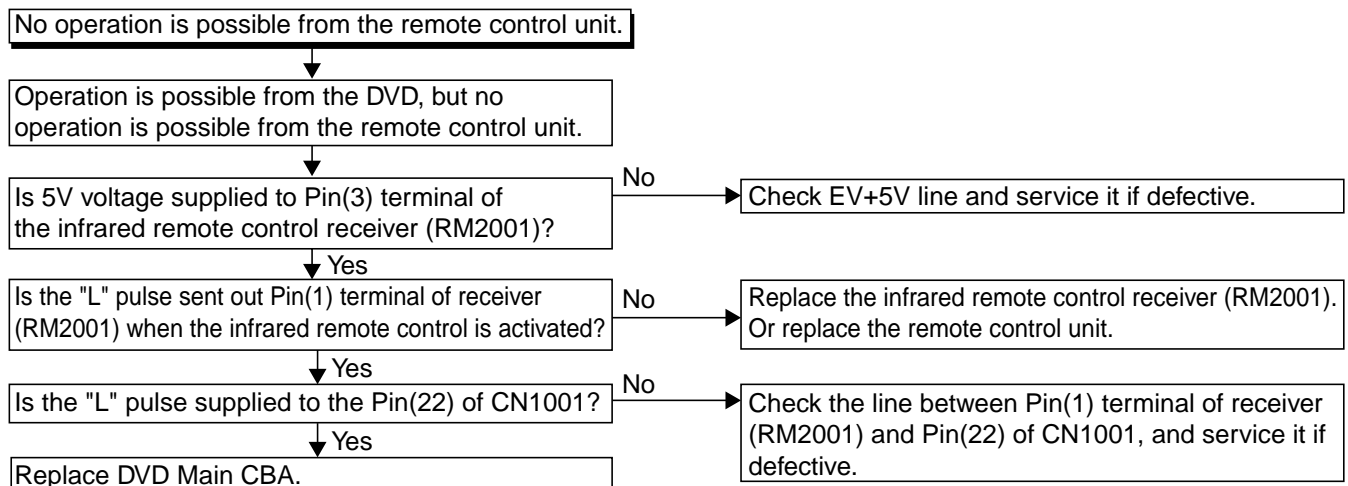
FLOW CHART NO.11



FLOW CHART NO.12

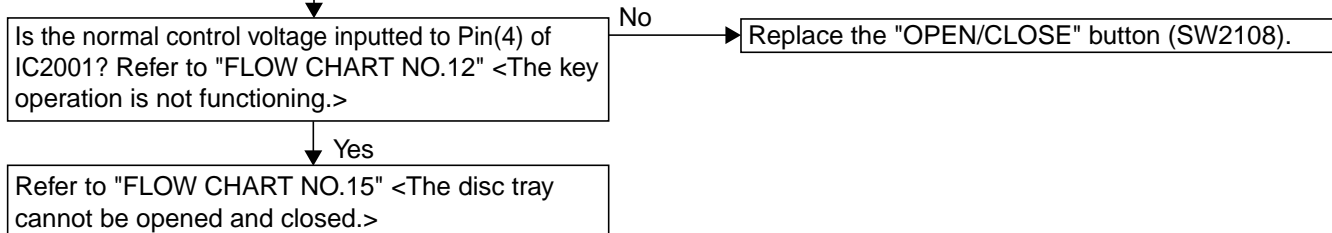


FLOW CHART NO.13



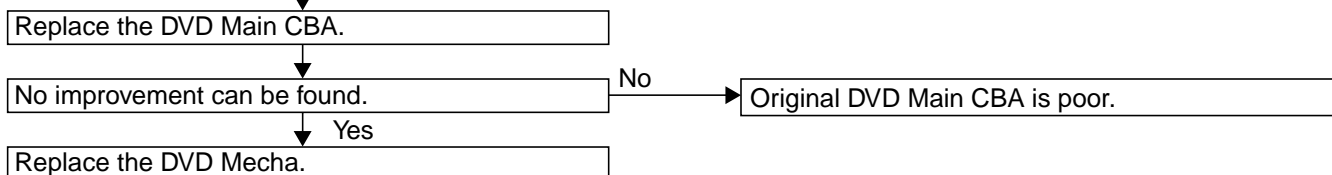
FLOW CHART NO.14

The disc tray cannot be opened and closed. (It can be done using the remote control unit.)



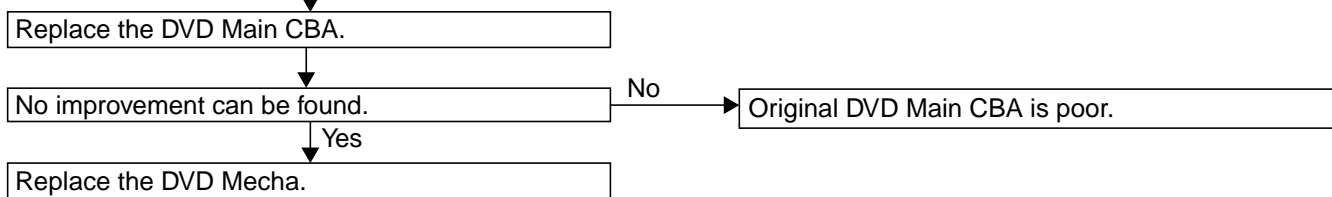
FLOW CHART NO.15

The disc tray cannot be opened and closed.



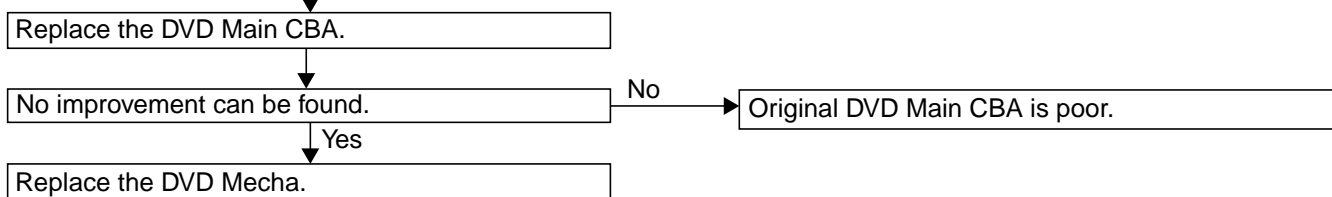
FLOW CHART NO.16

[No Disc] indicated. (When the focus error occurs.)



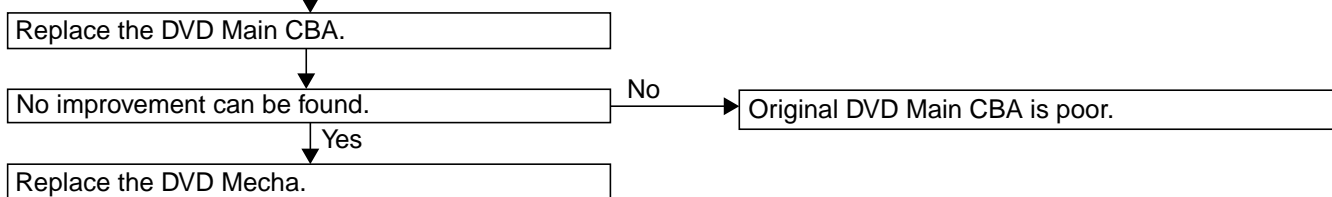
FLOW CHART NO.17

[No Disc] indicated. (When the focus servo is not functioning.)



FLOW CHART NO.18

[No Disc] indicated. (When the laser beam does not light up.)



FLOW CHART NO.19

Both functions of picture and sound do not operate normally.

Replace the DVD Main CBA.

No improvement can be found.

No

Original DVD Main CBA is poor.

Yes

Replace the DVD Mecha.

FLOW CHART NO.20

Picture does not appear normally.

Set the disc on the disc tray, and playback.

Are the video signals outputted to each pin of CN1601 on the AV CBA?

No

Replace the DVD Main CBA or DVD Mecha.

CN1601	4PIN	Cr/Pr
CN1601	6PIN	Cb/Pb
CN1601	8PIN	S-Y
CN1601	10PIN	S-C

Yes

Are the video signals shown above inputted into each pin of IC1402?

No

Check the line between each pin of CN1601 and each pin of IC1402 on the AV CBA, and service it if defective.

IC1402	1PIN	S-C
IC1402	3PIN	S-Y
IC1402	6PIN	Cb/Pb
IC1402	8PIN	Cr/Pr

Yes

Are the video signals outputted to each pin of IC1402?

No

Is 5V voltage applied to the pin(4, 12) of IC1402?

Yes

Replace IC1402.

No

Check P-ON+5V line and service it if defective.

IC1402	13PIN	S-Y
IC1402	11PIN	Cb/Pb
IC1402	10PIN	Cr/Pr
IC1402	14PIN	CVBS
IC1402	15PIN	S-C

Yes

Are the video signals outputted to the specific output terminal?

Are the luminance signals outputted to the S-OUT terminal (JK1401)?

No

Check the periphery of JK1401 from Pin (13) of IC1402 and service it if defective.

Are the chroma signals outputted to the S-OUT terminal (JK1401)?

No

Check the periphery of JK1401 from Pin (15) of IC1402 and service it if defective.

Are the component video signals outputted to the VIDEO OUT terminal (JK1404)?

No

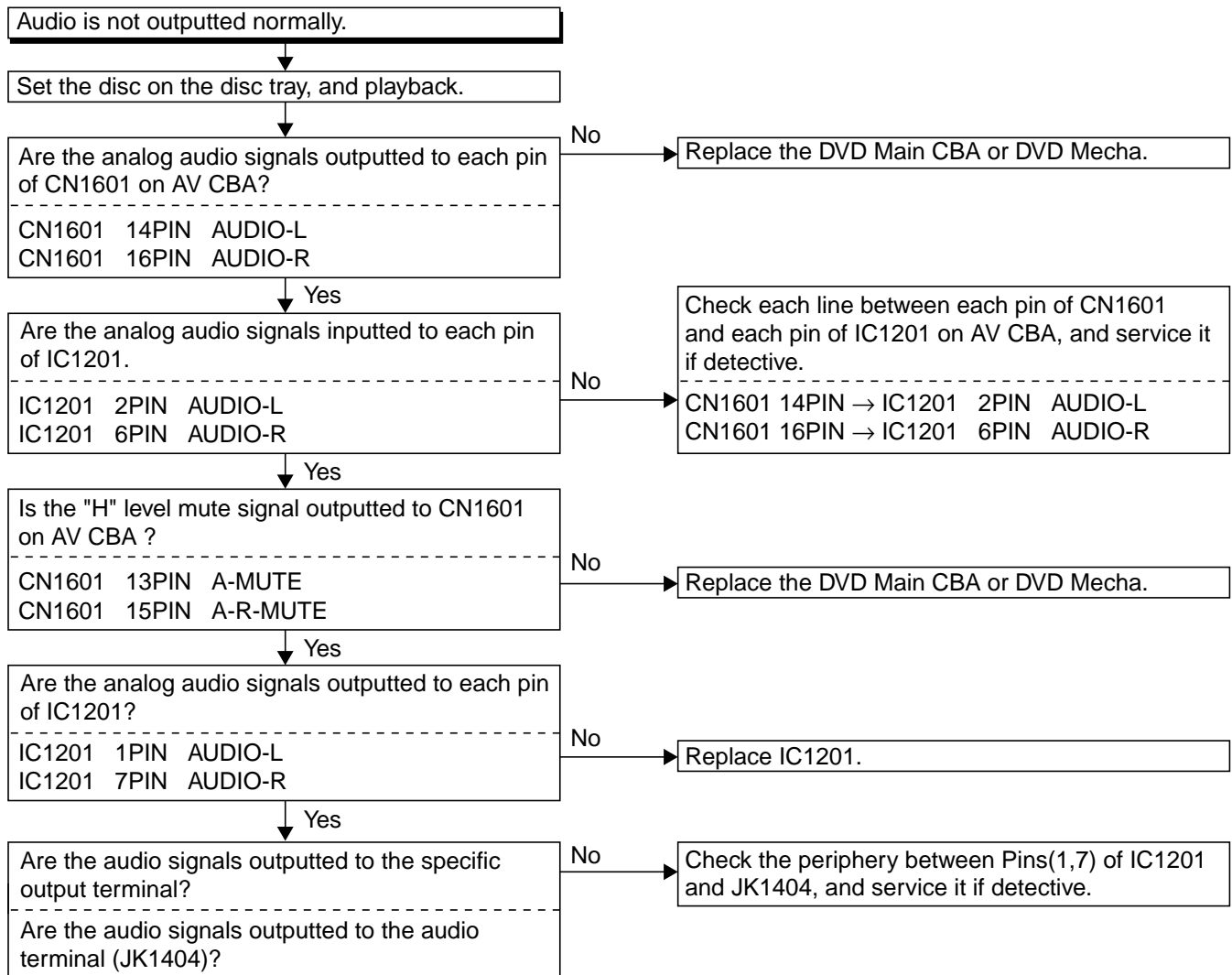
Check the periphery of JK1404 from Pins (10, 11, 13) of IC1402 and service it if defective.

Are the composite video signals outputted to the VIDEO OUT terminal (JK1404)?

No

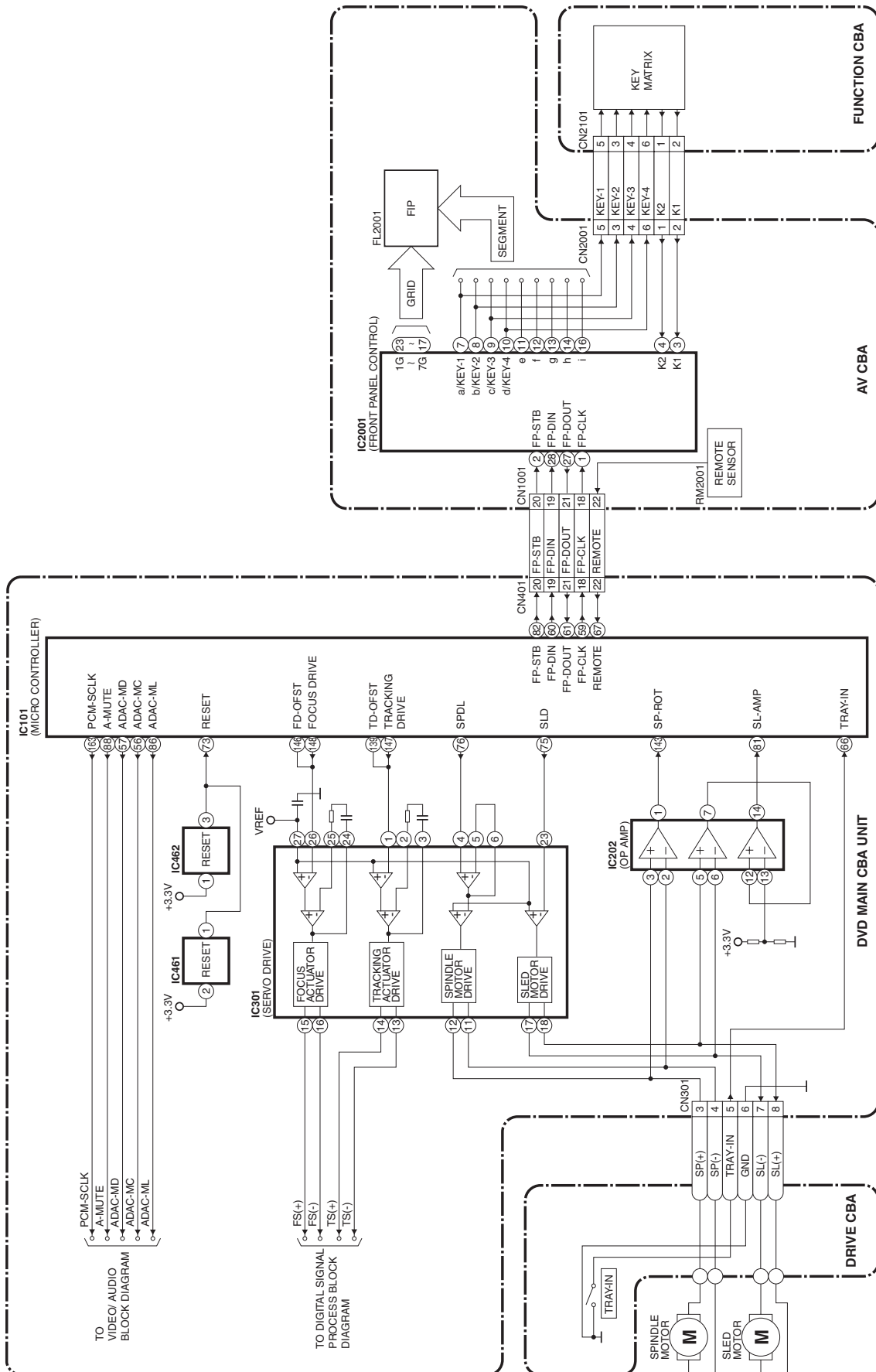
Check the periphery of JK1404 from Pin(14) of IC1402 and service it if defective.

FLOW CHART NO.21

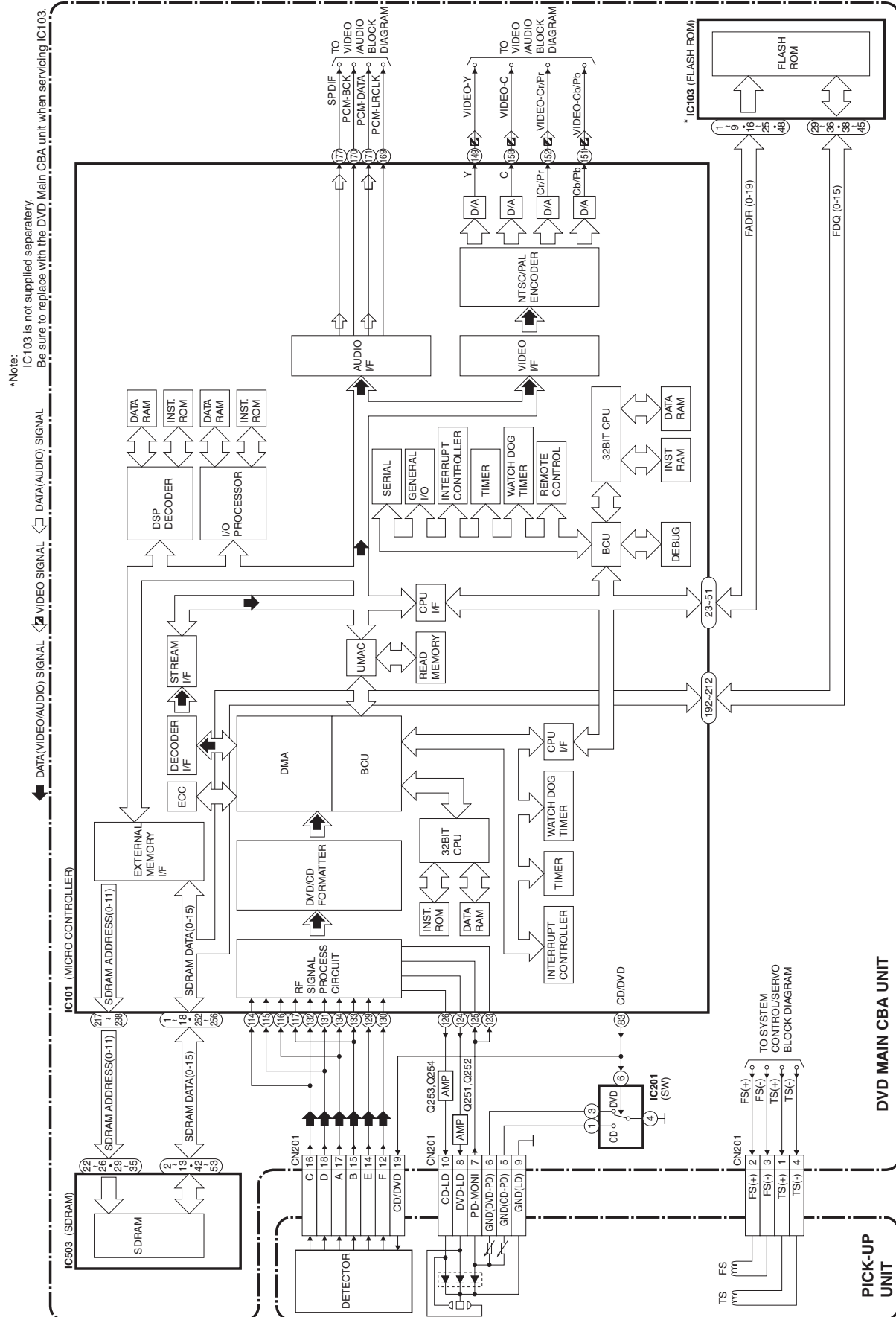


BLOCK DIAGRAMS

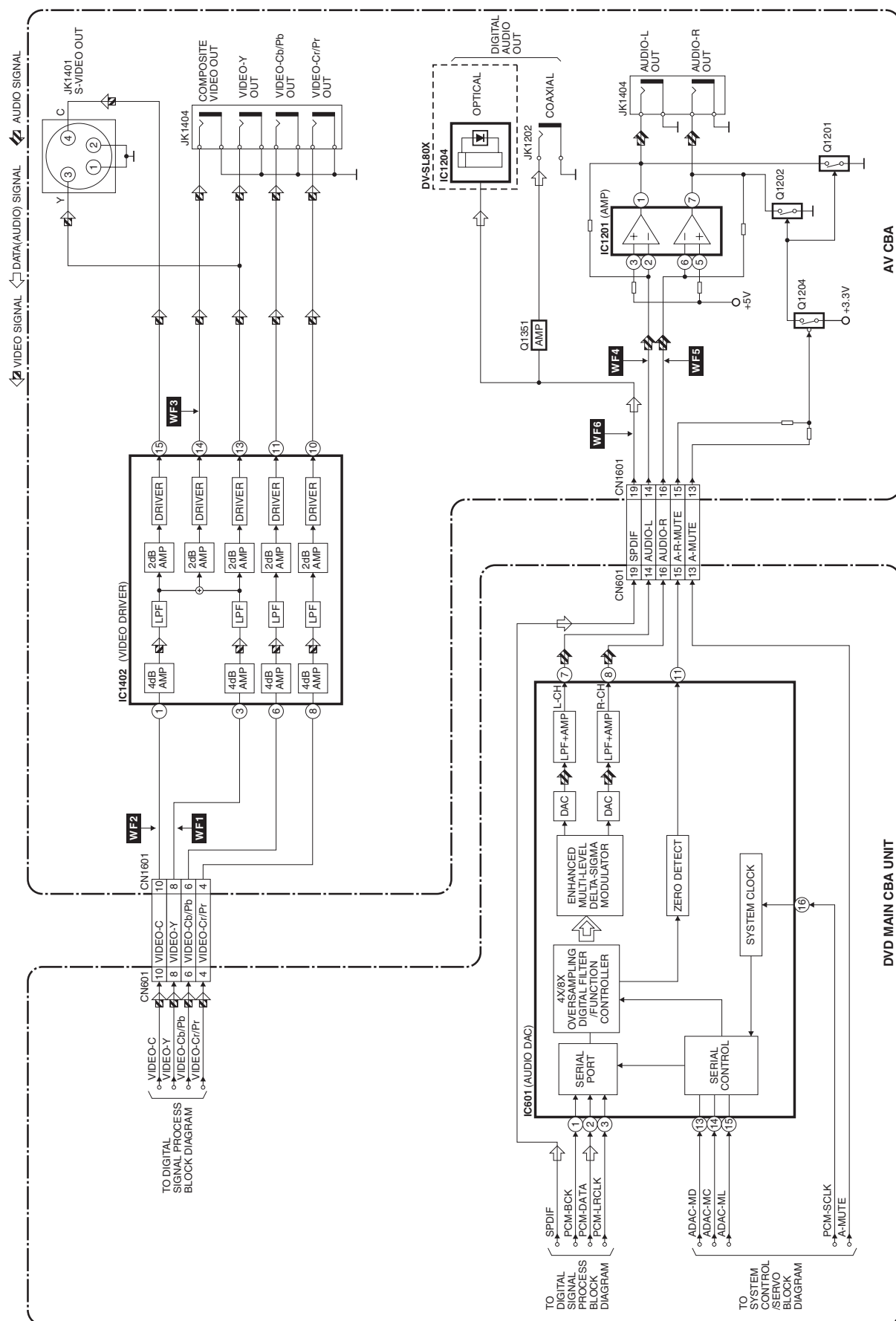
System Control / Servo Block Diagram



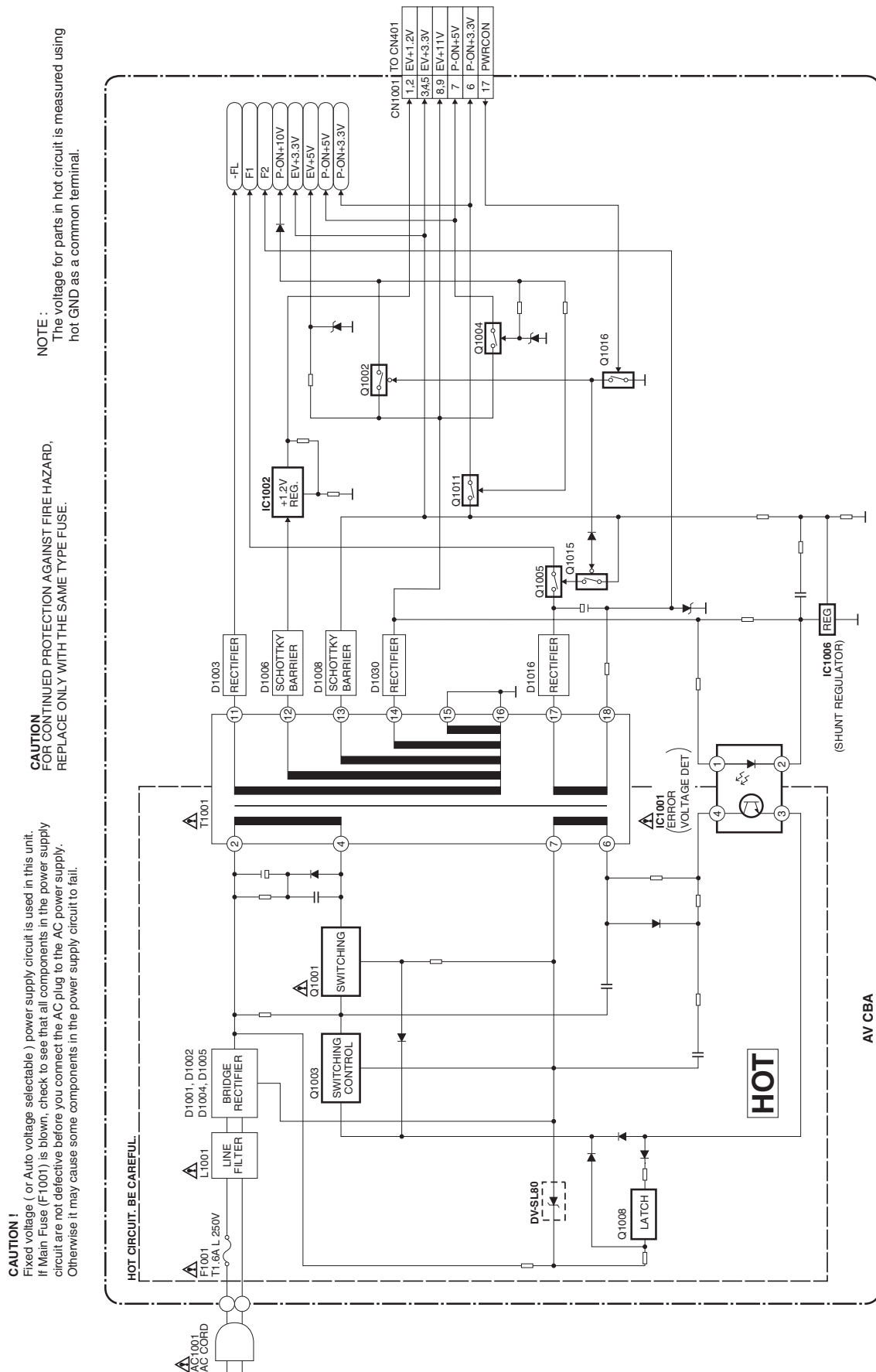
Digital Signal Process Block Diagram



Video / Audio Block Diagram



Power Supply Block Diagram



SCHEMATIC DIAGRAMS / CBA'S AND TEST POINTS

Standard Notes

WARNING

Many electrical and mechanical parts in this chassis have special characteristics. These characteristics often pass unnoticed and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts that have these special safety characteristics are identified in this manual and its supplements; electrical components having such features are identified by the mark " \triangle " in the schematic diagram and the parts list. Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts that do not have the same safety characteristics as specified in the parts list may create shock, fire, or other hazards.

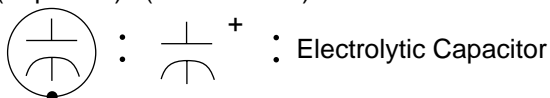
Capacitor Temperature Markings

Mark	Capacity change rate	Standard temperature	Temperature range
(B)	$\pm 10\%$	20°C	-25~+85°C
(F)	+30 - 80%	20°C	-25~+85°C
(SR)	$\pm 15\%$	20°C	-25~+85°C
(Z)	+30 - 80%	20°C	-10~+70°C

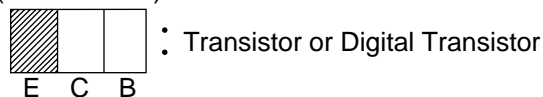
Capacitors and transistors are represented by the following symbols.

CBA Symbols

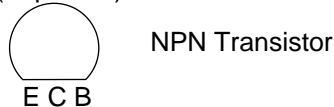
(Top View) (Bottom View)



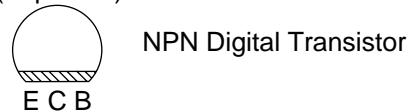
(Bottom View)



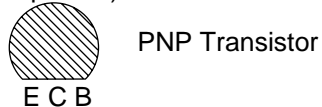
(Top View)



(Top View)



(Top View)



(Top View)

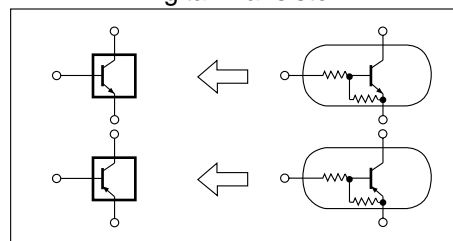


Notes:

1. Do not use the part number shown on these drawings for ordering. The correct part number is shown in the parts list, and may be slightly different or amended since these drawings were prepared.
2. All resistance values are indicated in ohms ($K=10^3$, $M=10^6$).
3. Resistor wattages are 1/4W or 1/6W unless otherwise specified.
4. All capacitance values are indicated in μF ($P=10^{-6} \mu F$).
5. All voltages are DC voltages unless otherwise specified.
6. Electrical parts such as capacitors, connectors, diodes, IC's, transistors, resistors, switches, and fuses are identified by four digits. The first two digits are not shown for each component. In each block of the diagram, there is a note such as shown below to indicate these abbreviated two digits.

Schematic Diagram Symbols

Digital Transistor



LIST OF CAUTION, NOTES, AND SYMBOLS USED IN THE SCHEMATIC DIAGRAMS ON THE FOLLOWING PAGES:

1. CAUTION:

FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH THE SAME TYPE FUSE.

2. CAUTION:

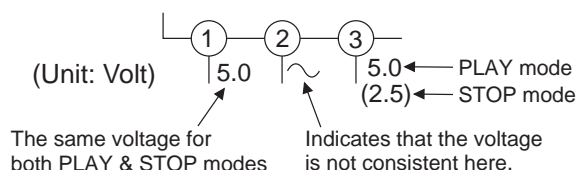
Fixed Voltage (or Auto voltage selectable) power supply circuit is used in this unit.

If Main Fuse (F1001) is blown, first check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply. Otherwise it may cause some components in the power supply circuit to fail.

3. Note:

- (1) Do not use the part number shown on the drawings for ordering. The correct part number is shown in the parts list, and may be slightly different or amended since the drawings were prepared.
- (2) To maintain original function and reliability of repaired units, use only original replacement parts which are listed with their part numbers in the parts list section of the service manual.

4. Voltage indications for PLAY and STOP mode on the schematics are as shown below:

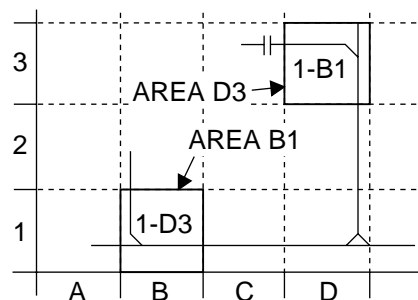


5. How to read converged lines

1-D3
 ↑ Distinction Area
 ↑ Line Number
 (1 to 3 digits)

Examples:

1. "1-D3" means that line number "1" goes to area "D3".
2. "1-B1" means that line number "1" goes to area "B1".



6. Test Point Information

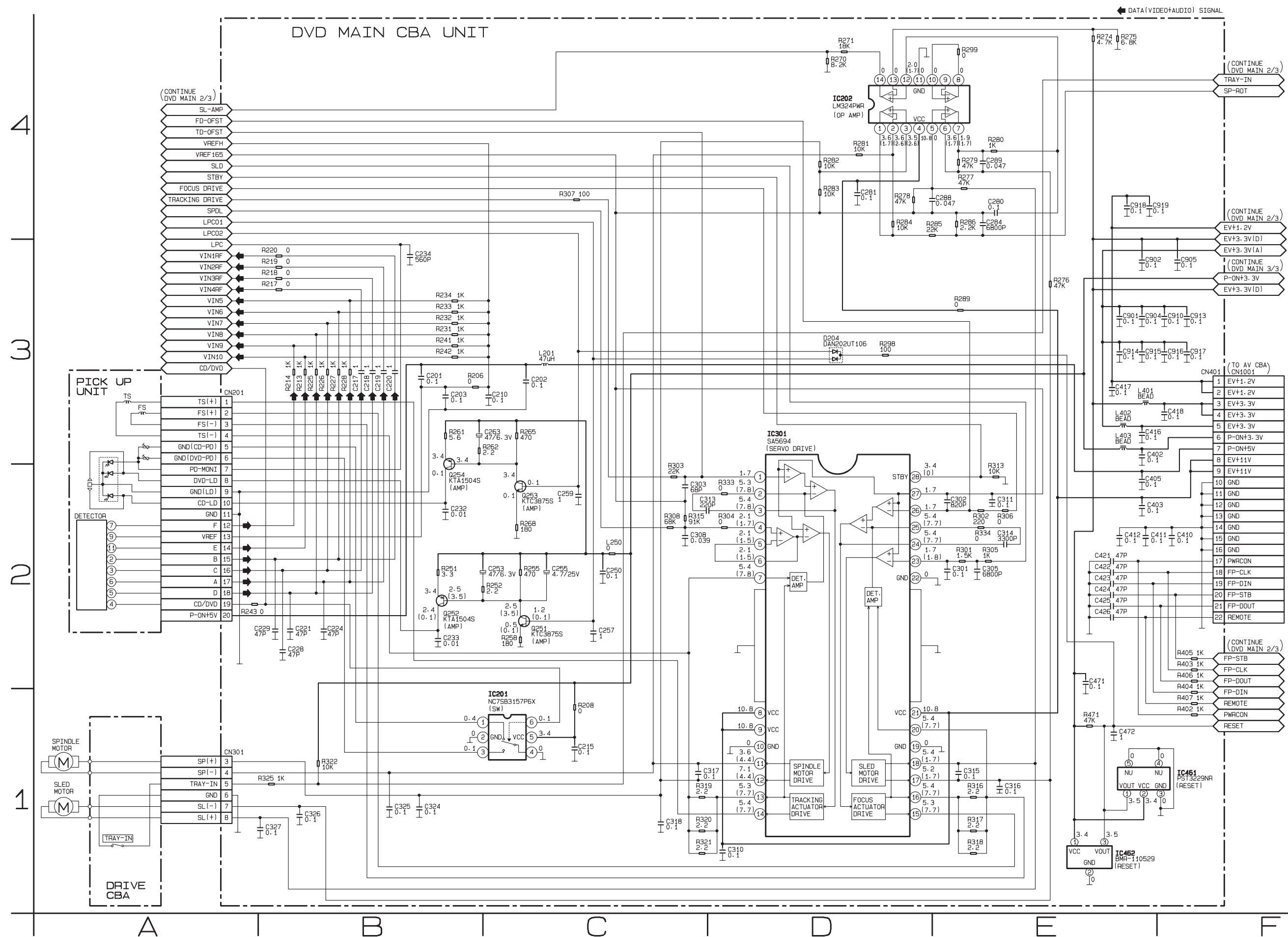
⊙ : Indicates a test point with a jumper wire across a hole in the PCB.

□→ : Used to indicate a test point with a component lead on foil side.

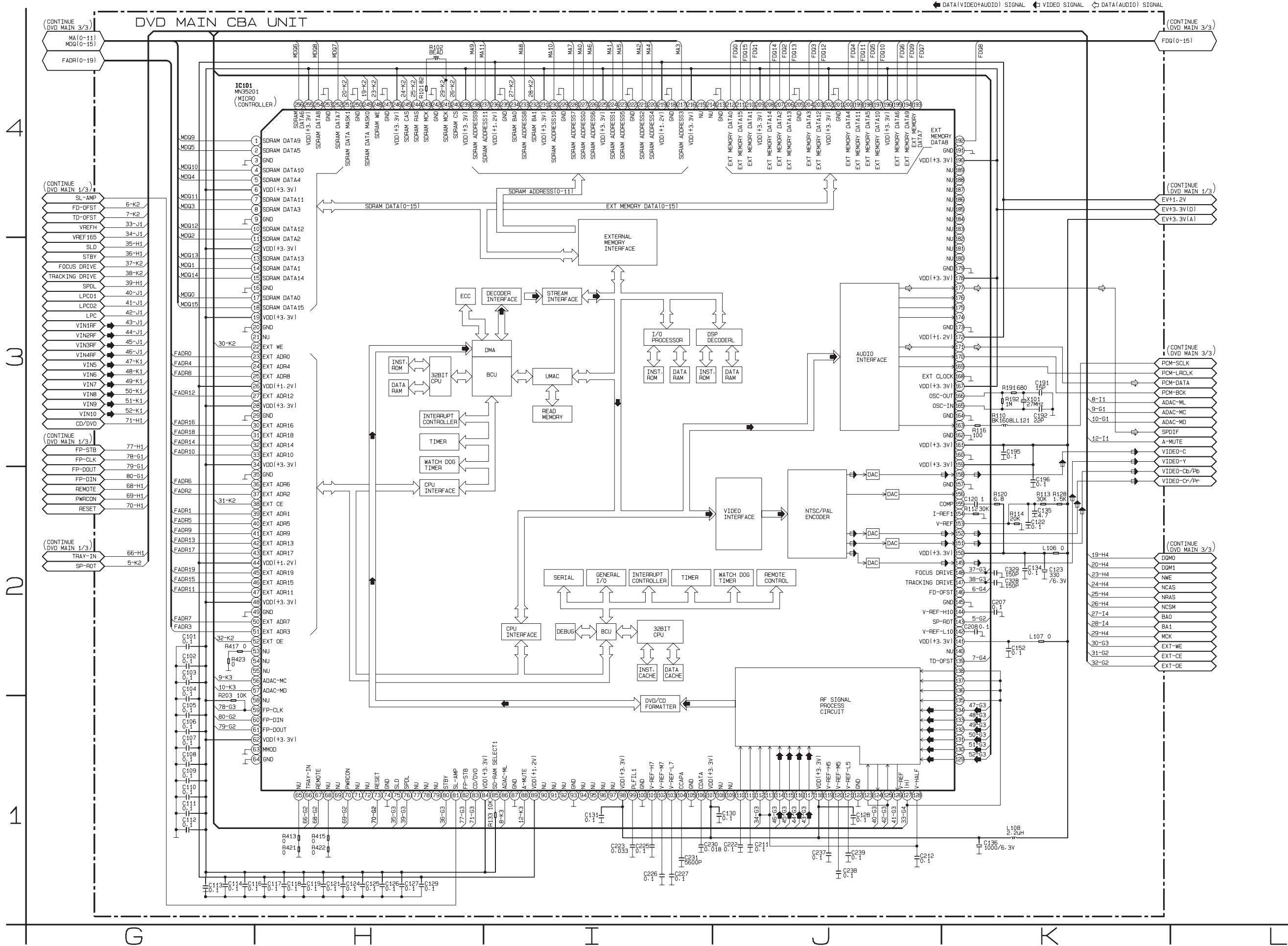
⊘ : Used to indicate a test point with no test pin.

● : Used to indicate a test point with a test pin.

DVD Main 1/3 Schematic Diagram



DVD Main 2/3 Schematic Diagram

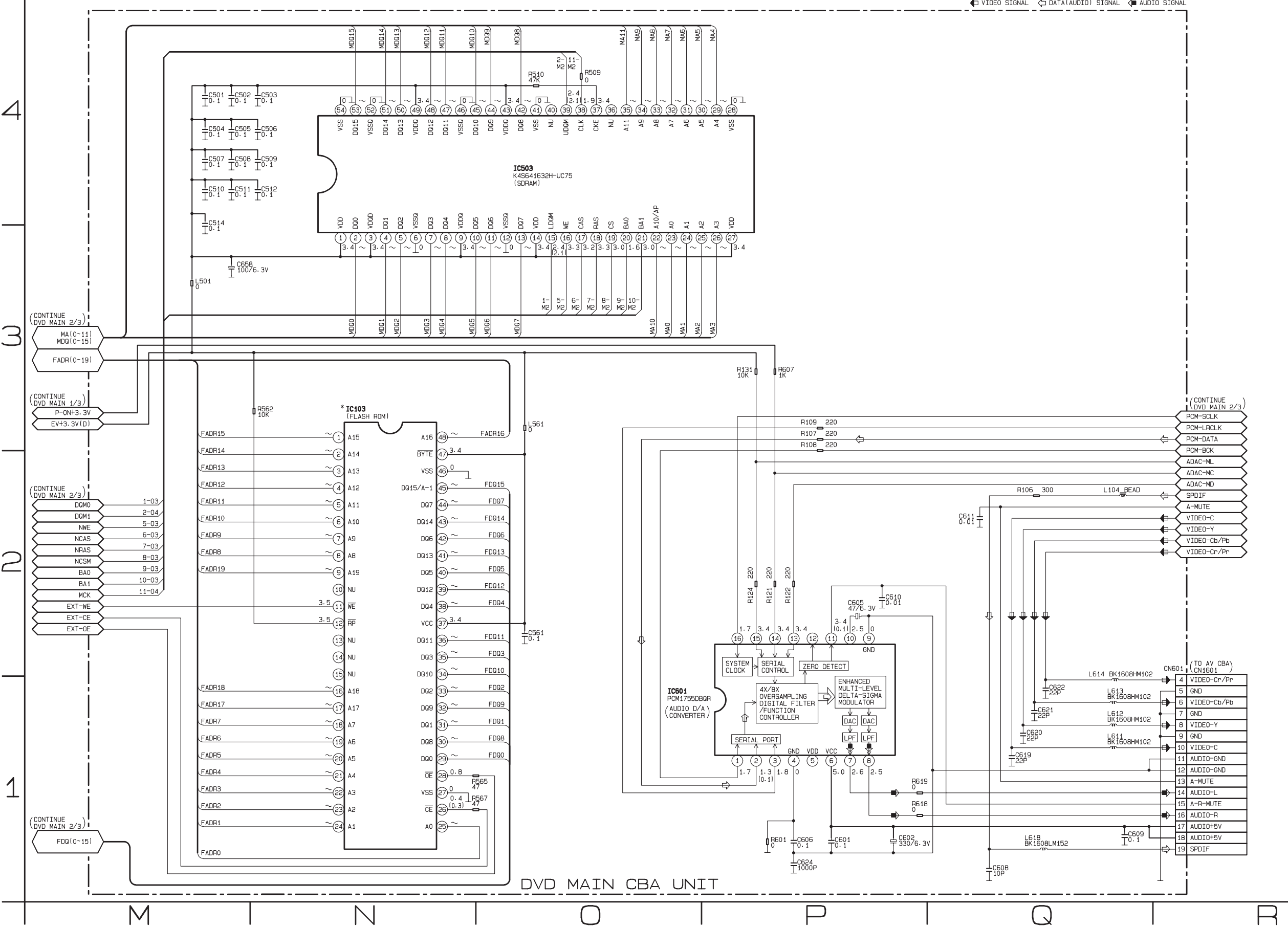


IC101 VOLTAGE CHART

PIN.NO	PLAY	STOP	PIN.NO	PLAY	STOP	PIN.NO	PLAY	STOP	PIN.NO	PLAY	STOP	PIN.NO	PLAY	STOP	PIN.NO	PLAY	STOP	PIN.NO	PLAY	STOP	PIN.NO	PLAY	STOP
1	~	~	33	~	~	65	0	0	97	----	----	129	2.3	2.3	161	3.4	3.4	193	~	~	225	3.4	3.4
2	~	~	34	3.4	3.4	66	3.4	3.5	98	3.4	3.4	130	2.3	2.3	162	0	0	194	~	~	226	~	~
3	0	0	35	0	0	67	3.2	3.2	99	0.9	0.8	131	2.3	2.3	163	1.8	1.8	195	~	~	227	~	~
4	~	~	36	~	~	68	0	0	100	0	0	132	2.4	2.3	164	0	0	196	3.4	3.4	228	~	~
5	~	~	37	~	~	69	----	----	101	2.4	2.4	133	2.4	2.4	165	1.7	1.8	197	~	~	229	0	0
6	3.4	3.4	38	0.4	0.3	70	3.4	3.4	102	2.2	2.2	134	2.4	2.4	166	1.7	1.7	198	~	~	230	~	~
7	~	~	39	~	~	71	----	----	103	1.9	1.9	135	2.3	2.3	167	3.4	3.4	199	~	~	231	3.4	3.4
8	~	~	40	~	~	72	----	----	104	0.4	0.3	136	2.3	2.3	168	0	0	200	~	~	232	1.3	1.6
9	0	0	41	~	~	73	3.4	3.4	105	0	0	137	2.3	2.3	169	1.8	1.8	201	0	0	233	~	~
10	~	~	42	~	~	74	0	0	106	1.7	1.7	138	2.3	2.3	170	1.7	1.7	202	3.4	3.4	234	1.9	2.3
11	~	~	43	~	~	75	1.7	1.8	107	3.4	3.4	139	1.7	1.7	171	1.3	0.1	203	~	~	235	0	0
12	3.4	3.4	44	1.3	1.3	76	2.3	1.8	108	----	----	140	----	----	172	1.3	1.3	204	~	~	236	1.3	1.3
13	~	~	45	~	~	77	----	----	109	----	----	141	3.4	3.4	173	0	0	205	0	0	237	~	~
14	~	~	46	~	~	78	----	----	110	1.9	1.9	142	1.3	1.3	174	----	----	206	~	~	238	~	~
15	~	~	47	~	~	79	----	----	111	1.9	1.9	143	2.1	1.7	175	----	----	207	~	~	239	3.4	3.4
16	0	0	48	3.4	3.4	80	3.4	0.1	112	1.7	1.7	144	2.2	2.2	176	----	----	208	~	~	240	3.4	3.3
17	~	~	49	0	0	81	0.1	0.1	113	1.7	1.7	145	0	0	177	1.8	1.7	209	3.4	3.4	241	1.9	1.9
18	~	~	50	~	~	82	2.8	2.8	114	1.7	1.7	146	1.7	1.7	178	3.4	3.5	210	~	~	242	0	0
19	3.4	3.4	51	~	~	83	0.1	0.1	115	1.7	1.7	147	1.8	1.7	179	0	0	211	~	~	243	1.9	1.9
20	0	0	52	0.8	0.8	84	3.4	3.4	116	1.7	1.7	148	1.7	1.7	180	----	----	212	~	~	244	3.4	3.3
21	----	----	53	0	0	85	0.1	0.1	117	1.7	1.7	149	0.6	0.5	181	----	----	213	0	0	245	3.4	3.4
22	3.5	3.5	54	----	----	86	3.6	3.4	118	3.4	3.4	150	3.4	3.4	182	----	----	214	----	----	246	3.4	3.4
23	~	~	55	----	----	87	0	0	119	2.0	2.0	151	0.5	0.6	183	----	----	215	----	----	247	0	0
24	~	~	56	3.4	3.4	88	3.5	0.1	120	1.7	1.7	152	0.5	0.4	184	----	----	216	3.4	3.4	248	3.3	3.4
25	~	~	57	3.5	3.5	89	1.3	1.3	121	1.5	1.5	153	1.4	1.3	185	----	----	217	~	~	249	3.2	3
26	1.3	1.3	58	----	----	90	----	----	122	0	0	154	1.4	1.3	186	----	----	218	0	0	250	0	0
27	~	~	59	3.4	3.4	91	----	----	123	0.3	0.1	155	2.4	2.4	187	----	----	219	1.3	1.3	251	3.2	3.0
28	3.4	3.4	60	3.4	3.4	92	----	----	124	1.2	0.1	156	----	----	188	----	----	220	~	~	252	~	~
29	0	0	61	3.5	3.5	93	0	0	125	0.3	0.1	157	0	0	189	----	----	221	~	~	253	0	0
30	~	~	62	3.4	3.4	94	----	----	126	0.1	0.1	158	0.9	0.9	190	3.4	3.5	222	0	0	254	~	~
31	~	~	63	0	0	95	----	----	127	2.3	2.3	159	3.4	3.4	191	0	0	223	~	~	255	3.4	3.4
32	~	~	64	0	0	96	----	----	128	1.7	1.7	160	0	0	192	~	~	224	~	~	256	~	~

DVD Main 3/3 Schematic Diagram

*Note:
IC103 is not supplied separately.
Be sure to replace with the DVD Main CBA unit when servicing IC103.



AV 1/3 Schematic Diagram

CAUTION !

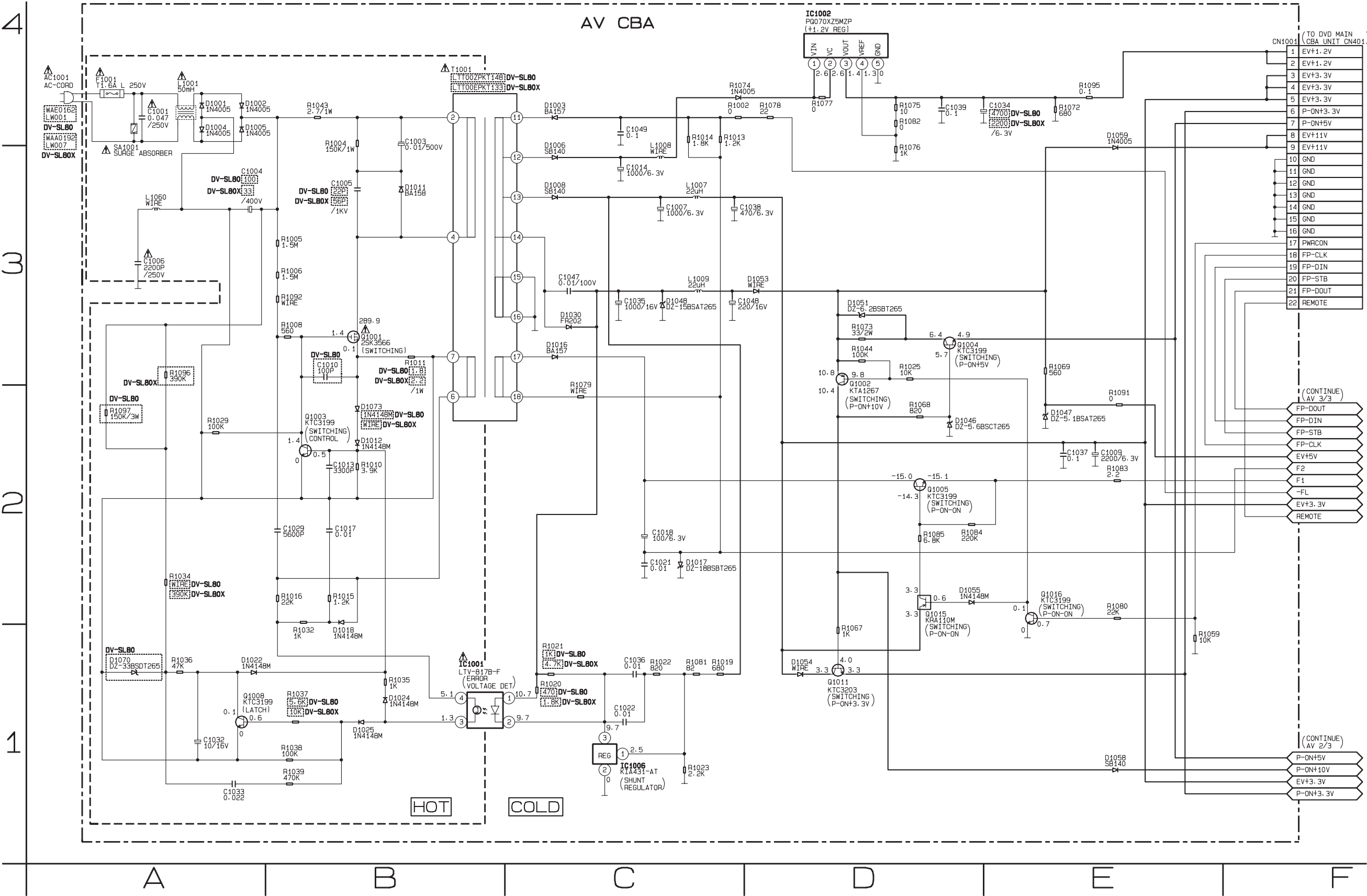
Fixed voltage (or Auto voltage selectable) power supply circuit is used in this unit.
If Main Fuse (F1001) is blown, check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply.
Otherwise it may cause some components in the power supply circuit to fail.

CAUTION

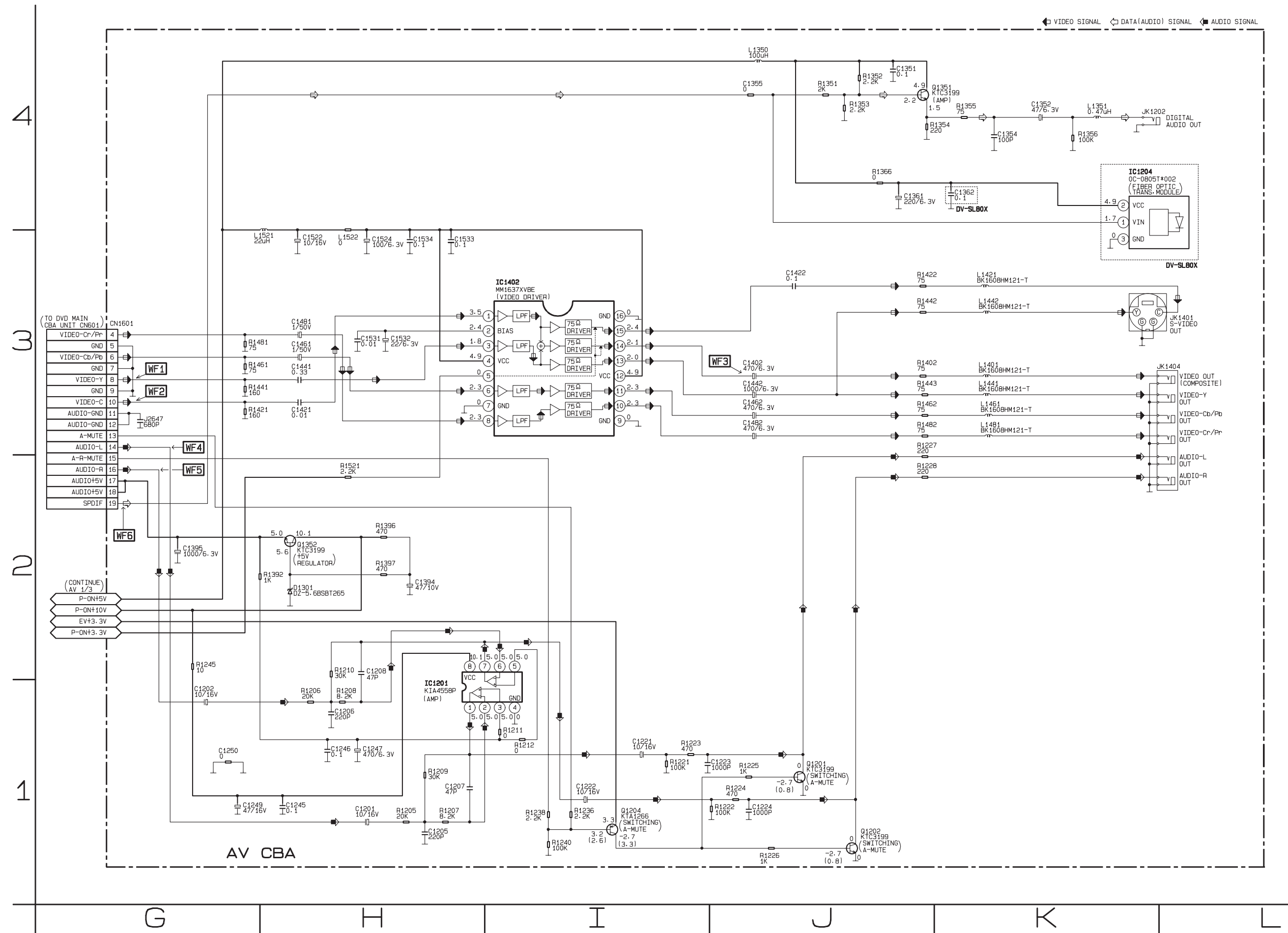
FOR CONTINUED PROTECTION AGAINST FIRE HAZARD,
REPLACE ONLY WITH THE SAME TYPE FUSE.

NOTE :

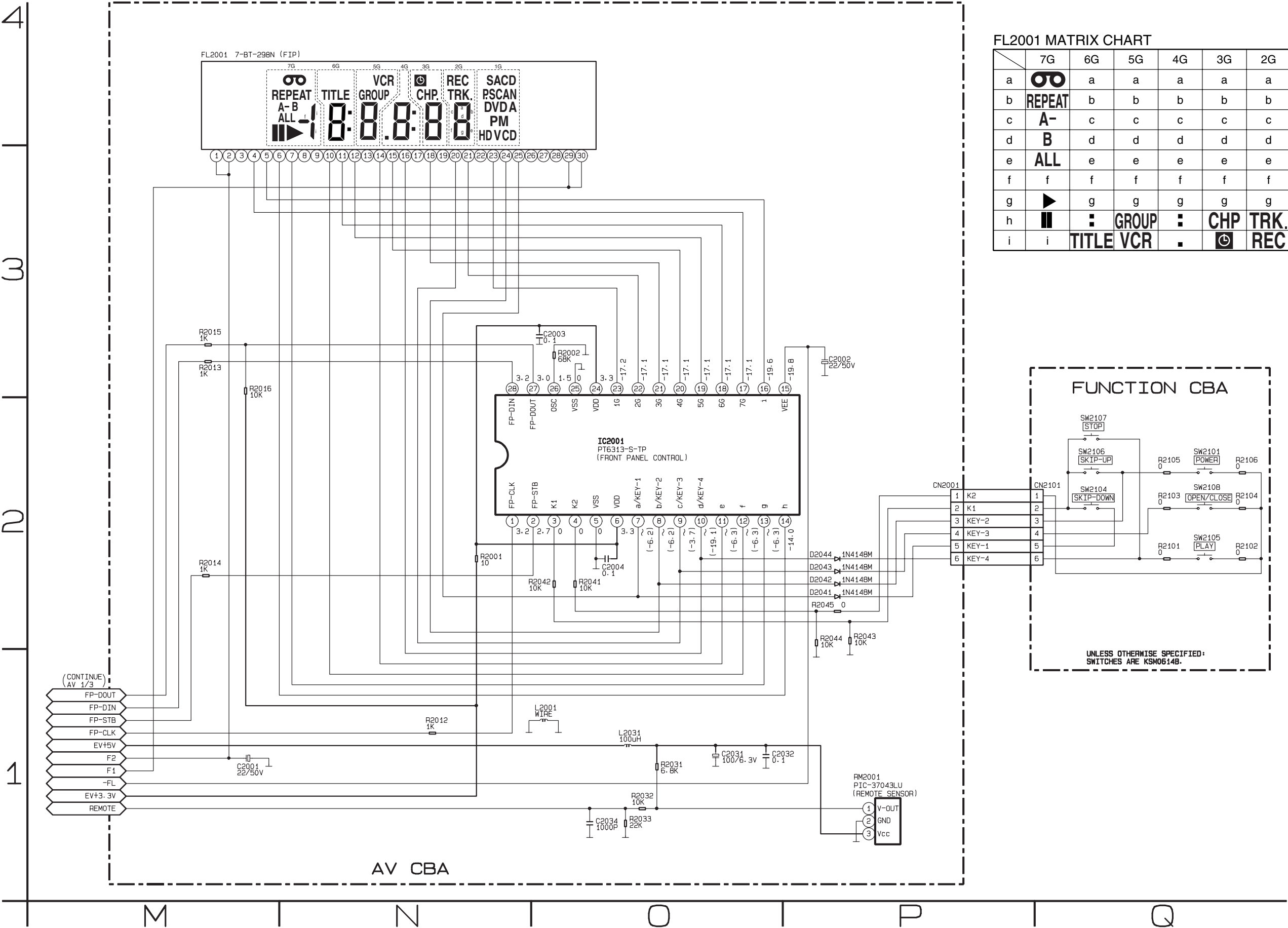
THE VOLTAGE FOR PARTS IN HOT CIRCUIT IS MEASURED USING
HOT GND AS A COMMON TERMINAL.



AV 2/3 Schematic Diagram



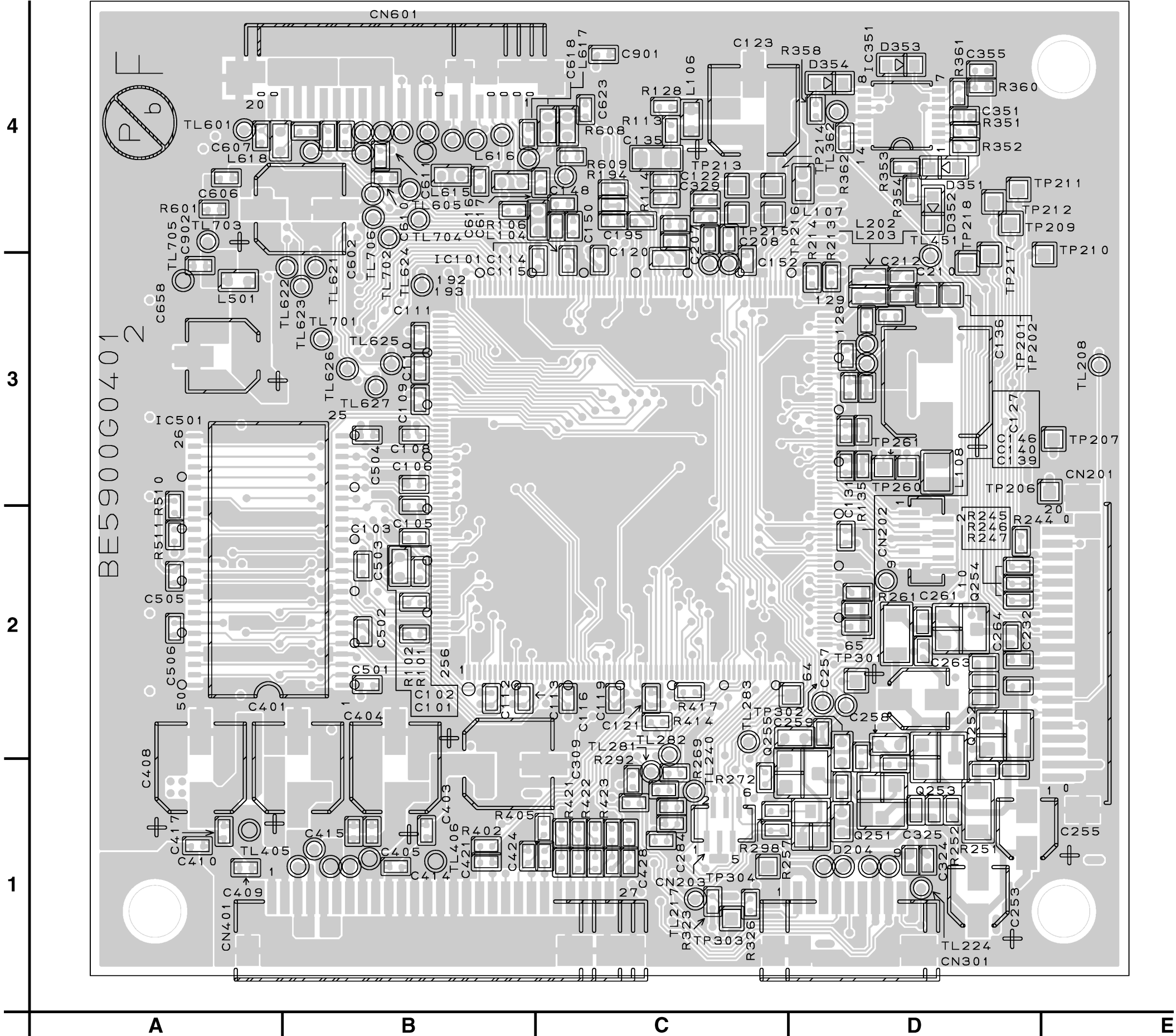
AV 3/3 & Function Schematic Diagram



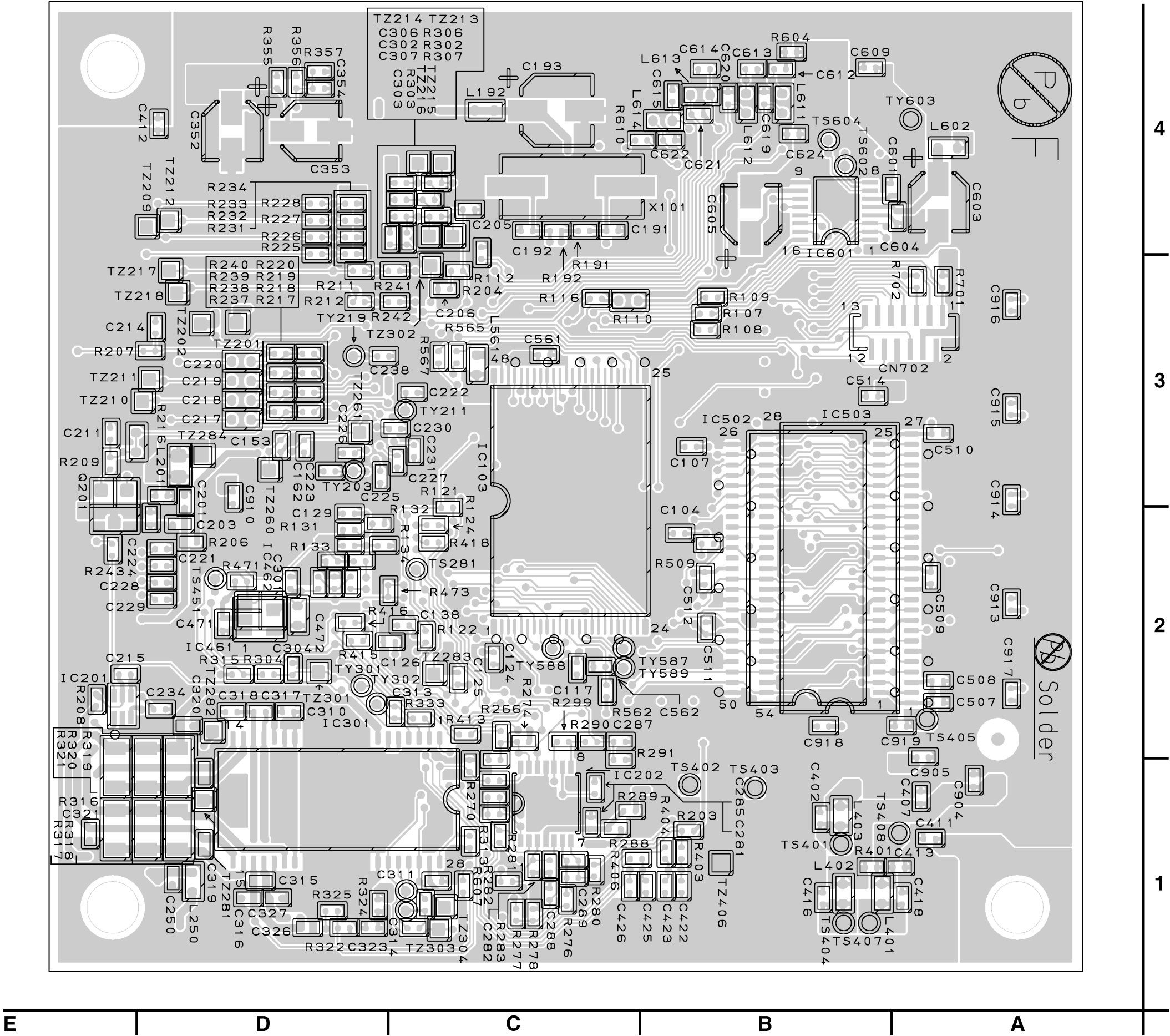
FL2001 MATRIX CHART

	7G	6G	5G	4G	3G	2G	1G
a		a	a	a	a	a	SACD
b	REPEAT	b	b	b	b	b	PSCAN
c	A-	c	c	c	c	c	DVD
d	B	d	d	d	d	d	A
e	ALL	e	e	e	e	e	P
f	f	f	f	f	f	f	M
g		g	g	g	g	g	HD
h		:	GROUP	:	CHP	TRK.	V
i	i	TITLE	VCR	.		REC	CD

DVD MAIN CBA Top View



DVD MAIN CBA Bottom View

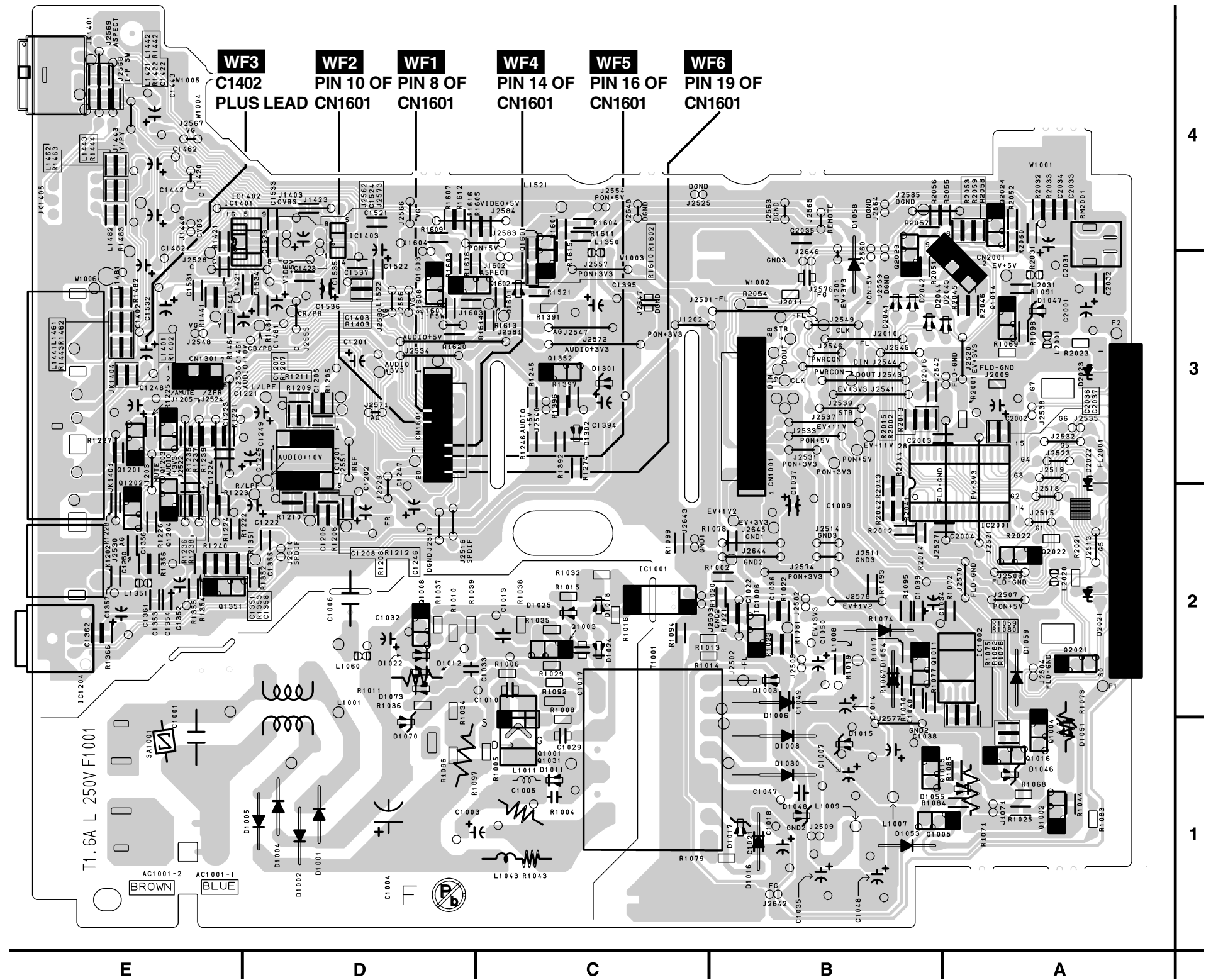


AV CBA Bottom View

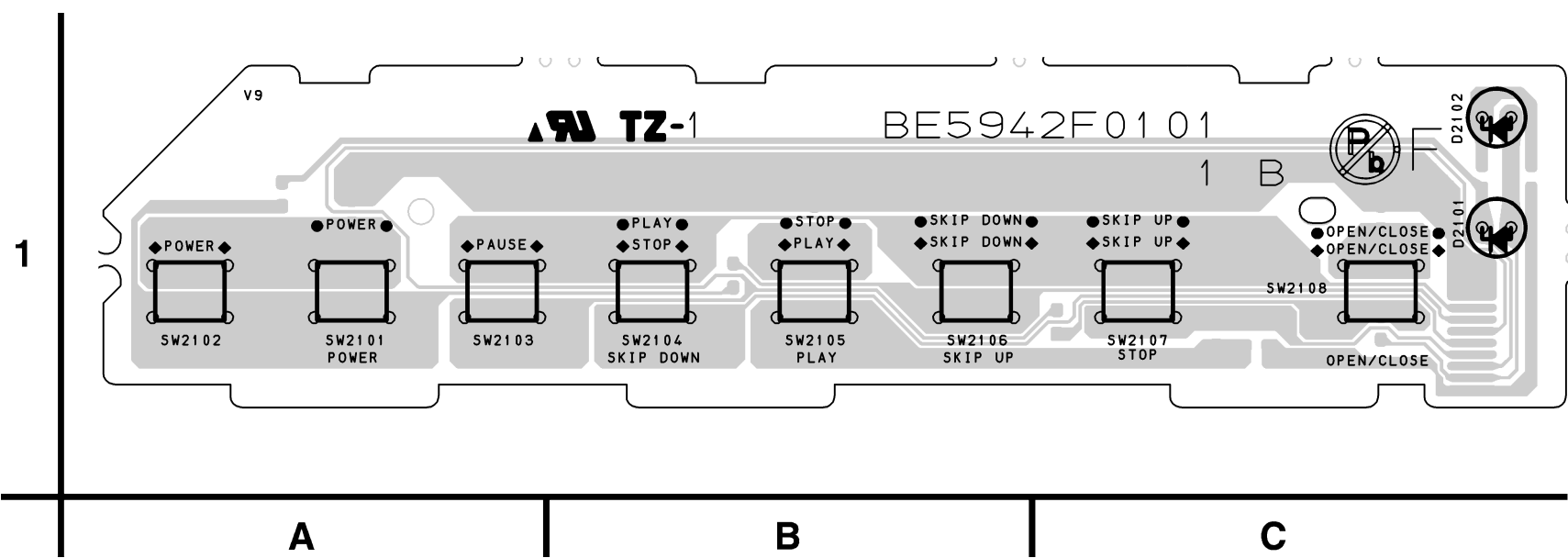
CAUTION !
Fixed voltage (or Auto voltage selectable) power supply circuit is used in this unit.
If Main Fuse (F1001) is blown, check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply.
Otherwise it may cause some components in the power supply circuit to fail.

CAUTION
FOR CONTINUED PROTECTION AGAINST FIRE HAZARD,
REPLACE ONLY WITH THE SAME TYPE FUSE.

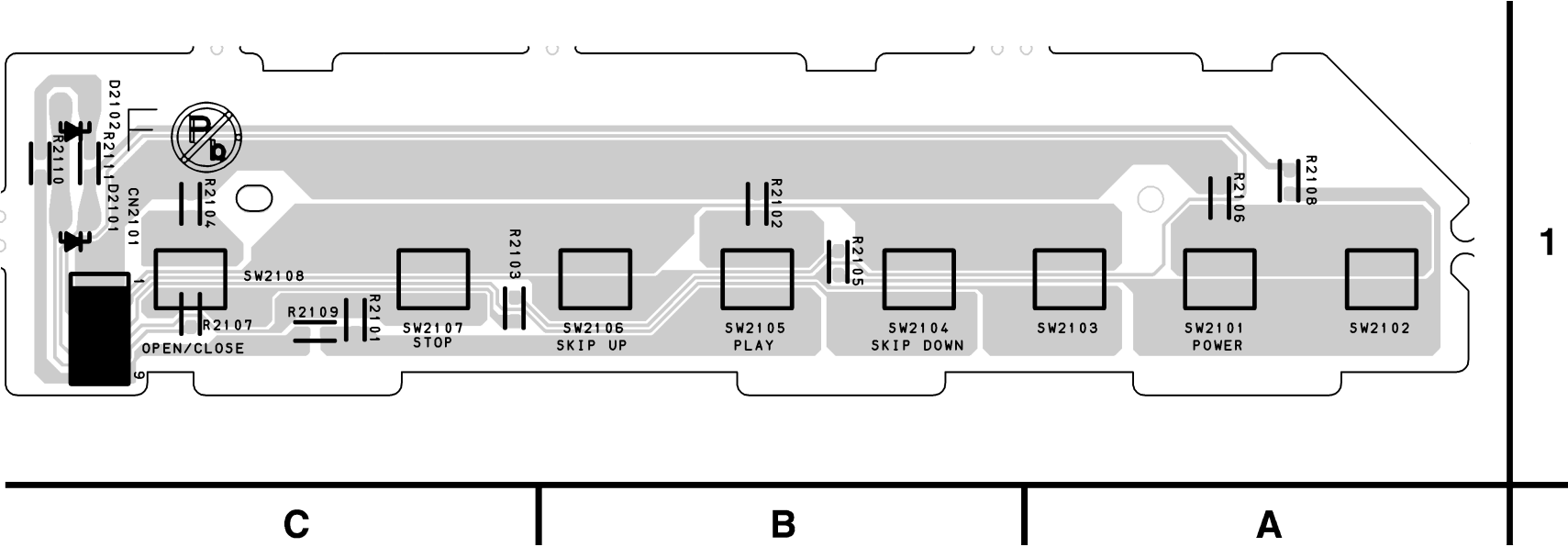
NOTE :
The voltage for parts in hot circuit is measured
using hot GND as a common terminal.



FUNCTION CBA Top View

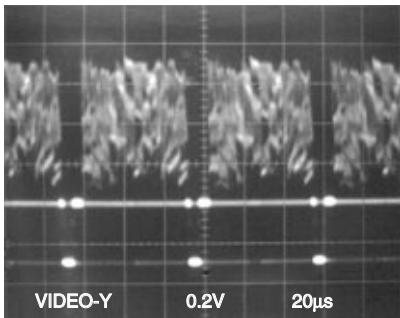


FUNCTION CBA Bottom View

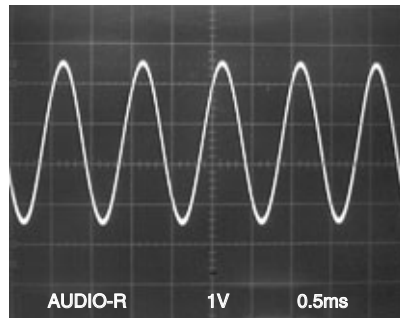


WAVEFORMS

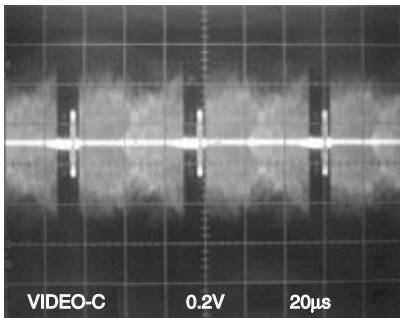
WF1 Pin 8 of CN1601



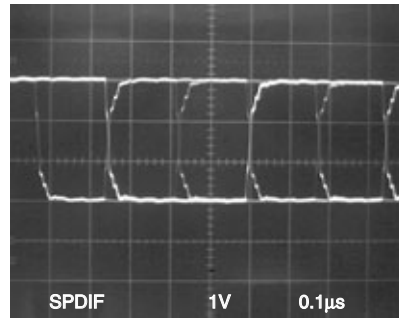
WF5 Pin 16 of CN1601



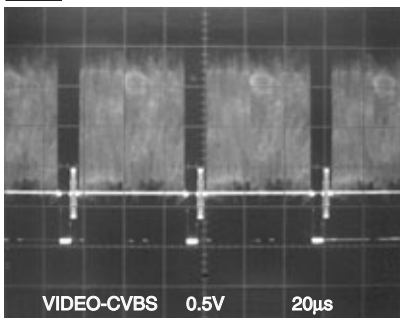
WF2 Pin 10 of CN1601



WF6 Pin 19 of CN1601



WF3 C1402 PLUS LEAD



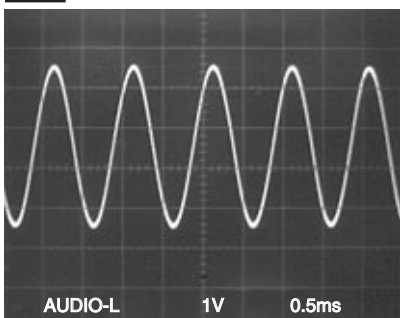
NOTE:

Input

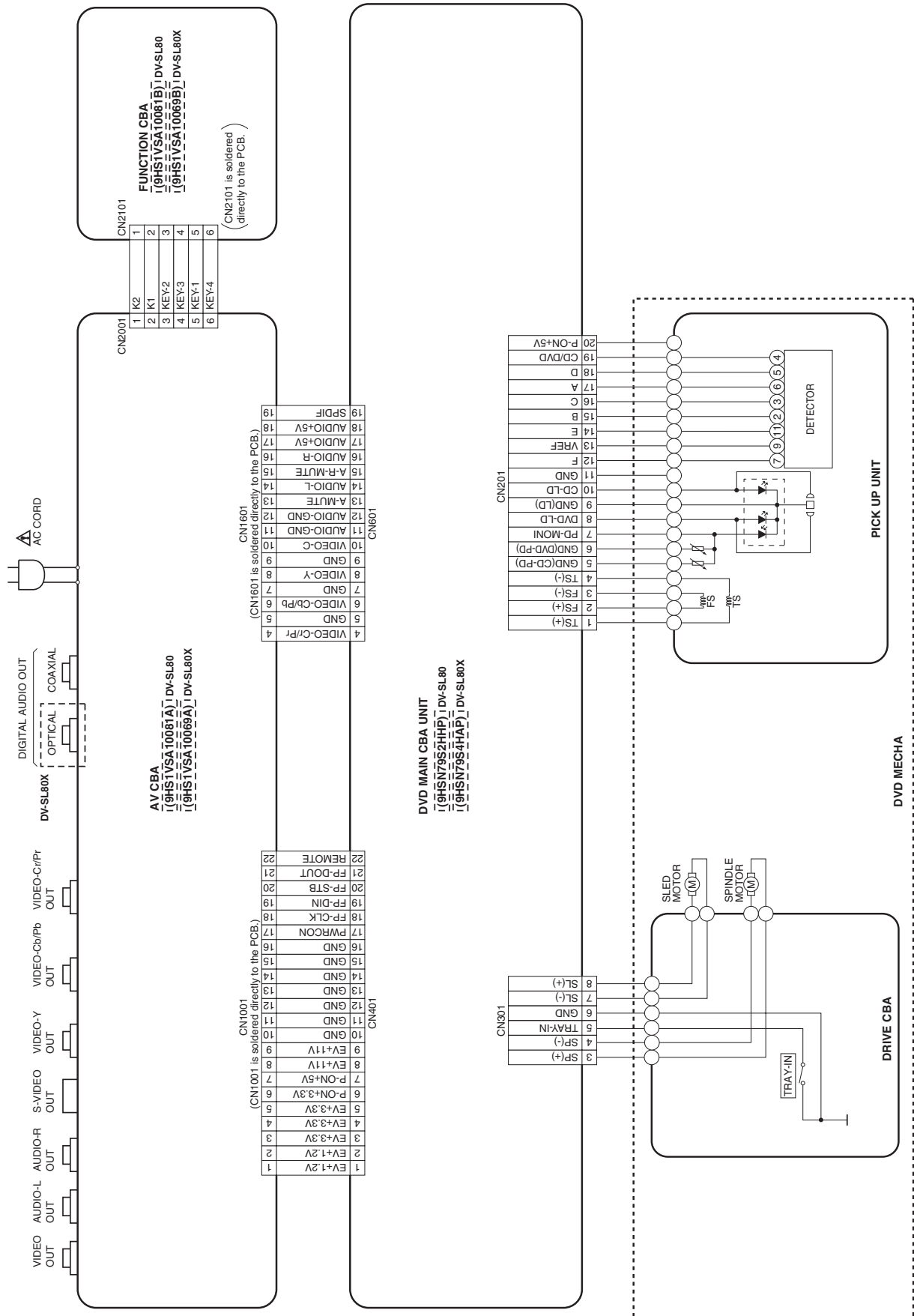
CD: 1kHz PLAY
(WF4~WF6)

DVD: POWER ON (STOP) MODE
(WF1~WF3)

WF4 Pin 14 of CN1601

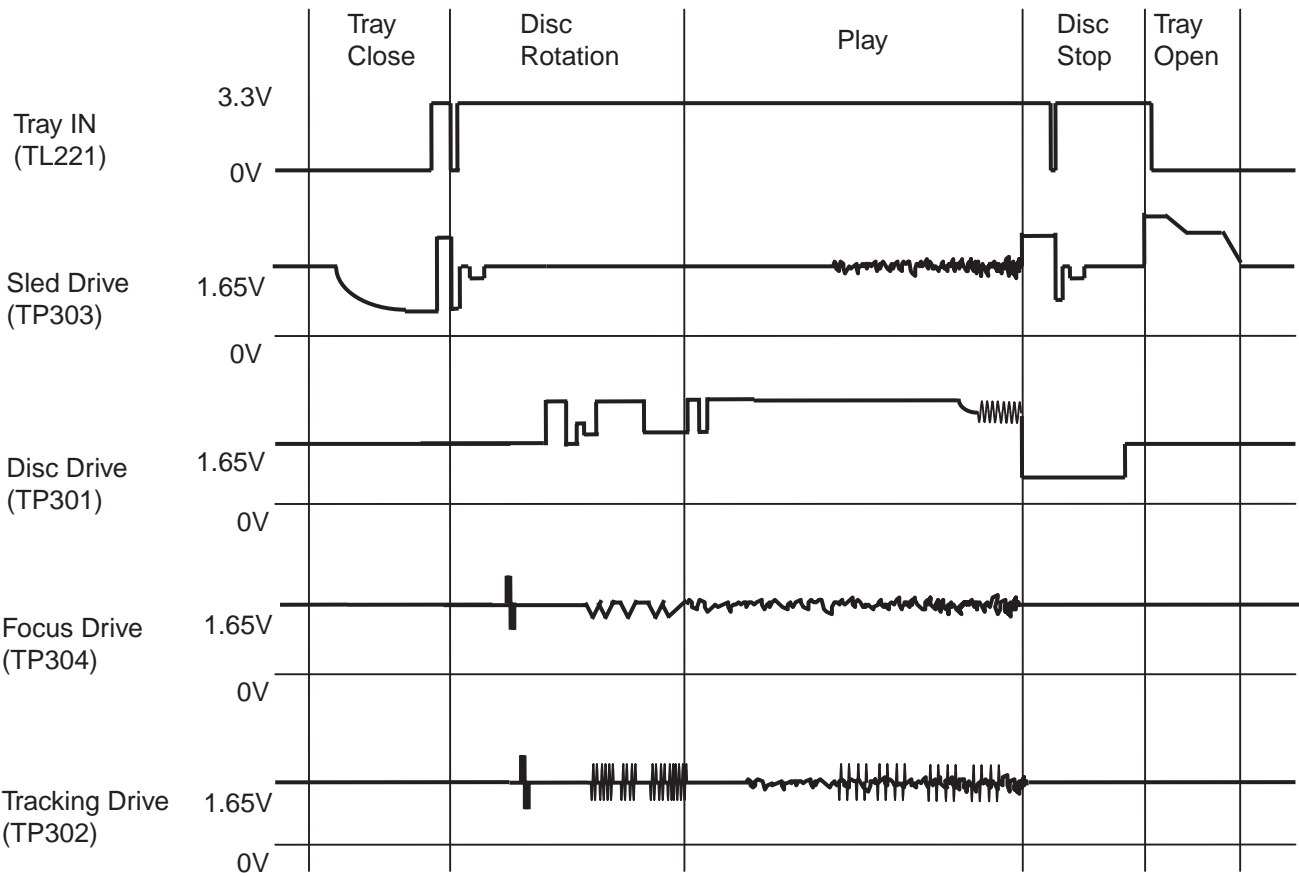


WIRING DIAGRAM



SYSTEM CONTROL TIMING CHARTS

Tray Close ~ Play / Play ~ Tray Open

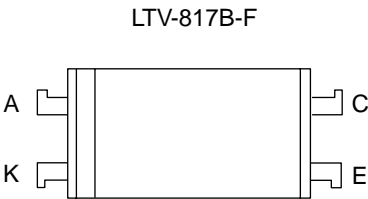
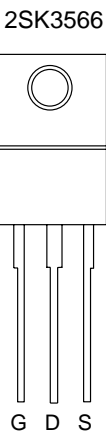
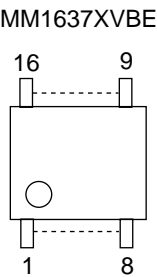
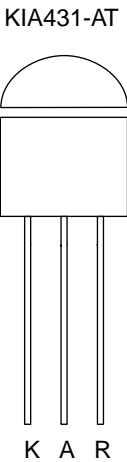
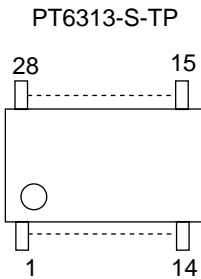
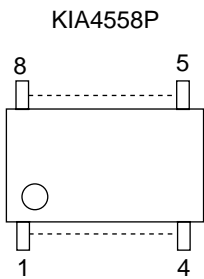
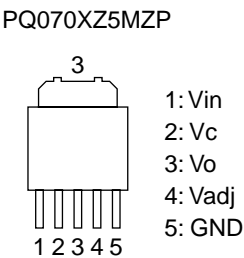
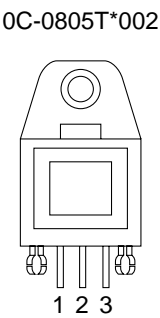
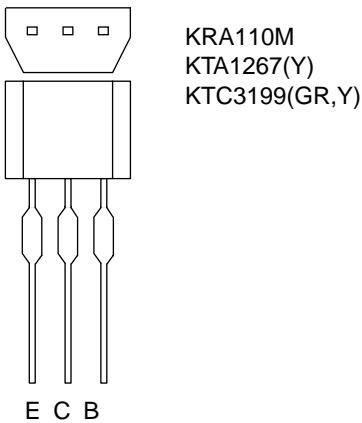
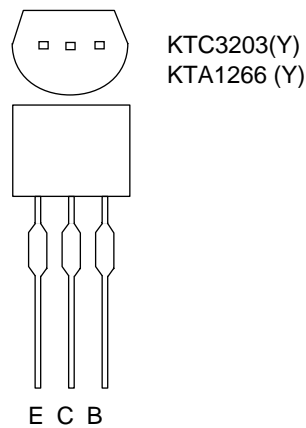


IC PIN FUNCTION DESCRIPTIONS

IC2001 (PT6313-S -TP)

Pin No.	In/Out	Signal Name	Name Function
1	In	FP-CLK	Clock Input
2	In	FP-STB	Serial Interface Strobe
3	In	K1	Key Data 1 Input
4	In	K2	Key Data 2 Input
5	-	VSS	GND
6	-	VDD	Power Supply
7	Out	a / KEY-1	Segment Output / Key Souce-1
8	Out	b / KEY-2	Segment Output / Key Souce-2
9	Out	c / KEY-3	Segment Output / Key Souce-3
10	Out	d / KEY-4	Segment Output/ Key Souce-4
11	Out	e	Segment Output
12	Out	f	
13	Out	g	
14	Out	h	
15	-	VEE	Pull Down Level
16	Out	i	Segment Output
17	Out	7G	Grid Output
18		6G	
19		5G	
20		4G	
21		3G	
22		2G	
23		1G	
24	-	VDD	Power Supply
25	-	VSS	GND
26	In	OSC	Oscillator Input
27	Out	FP-DOUT	Serial Data Output
28	In	FP-DIN	Serial Data Input

LEAD IDENTIFICATIONS



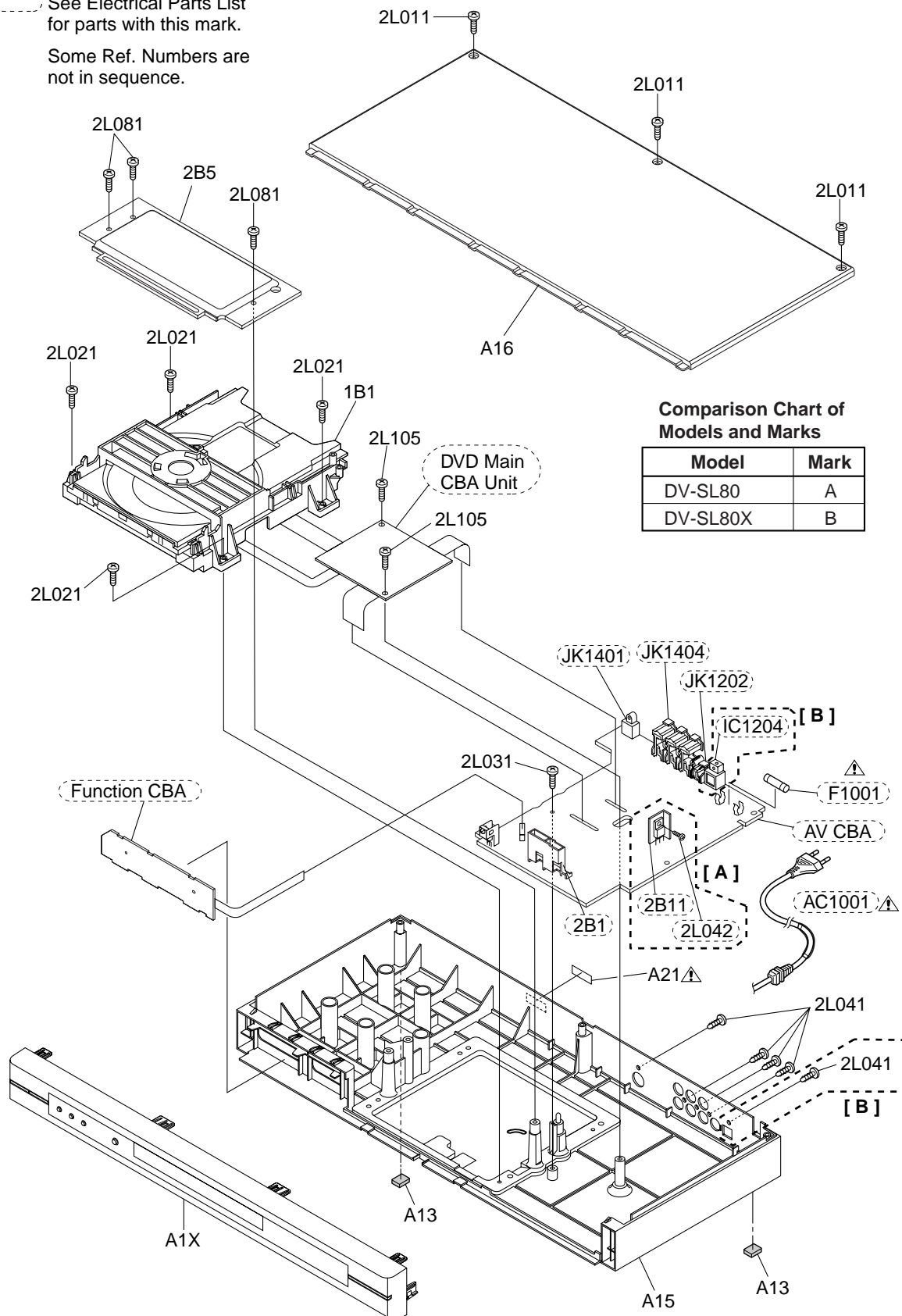
Note:
A: Anode
K: Cathode
E: Emitter
C: Collector
B: Base
R: Reference
S: Source
G: Gate
D: Drain

EXPLODED VIEWS

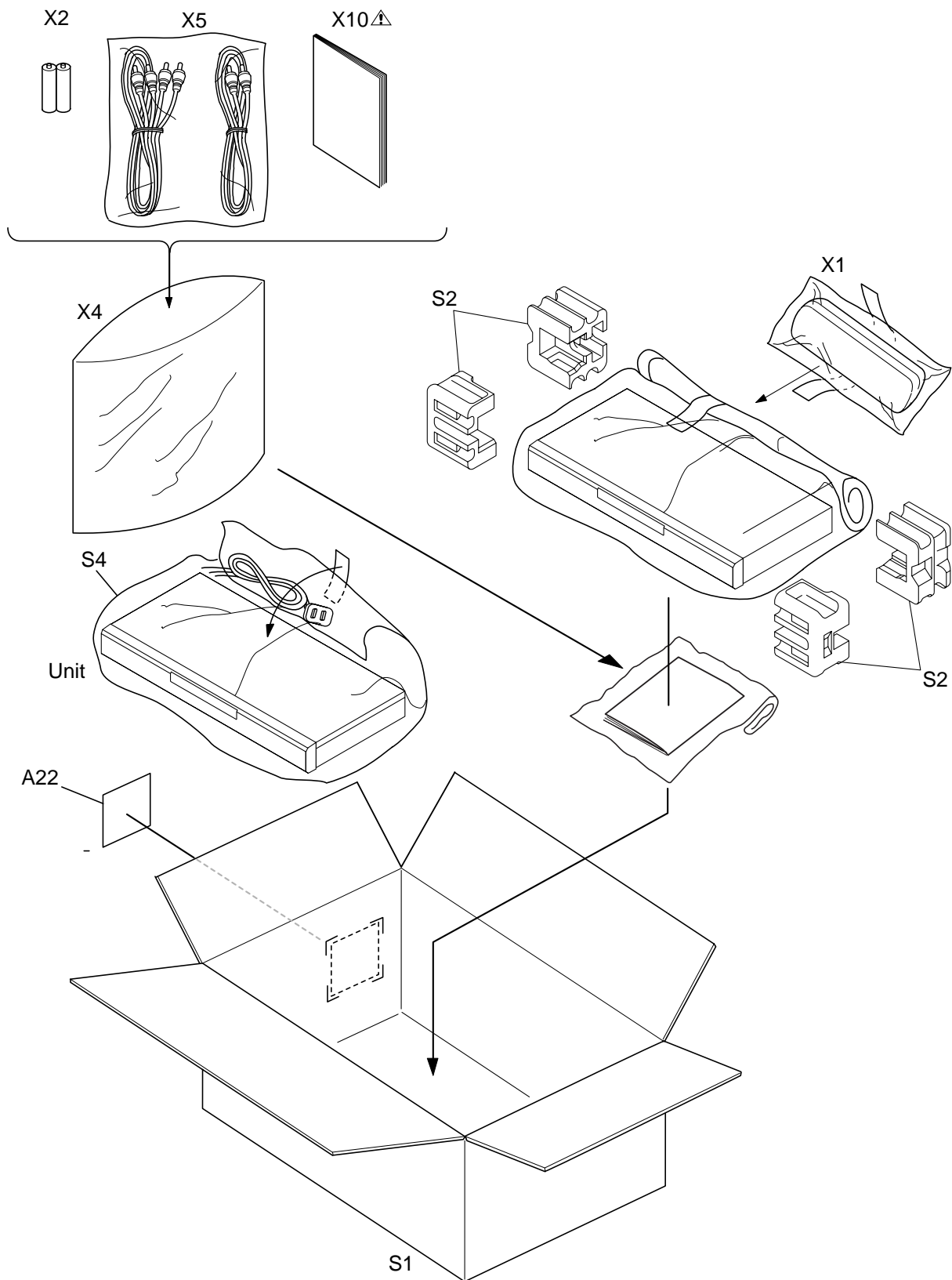
Cabinet

See Electrical Parts List for parts with this mark.


Some Ref. Numbers are not in sequence.



Packing







MECHANICAL PARTS LIST

PRODUCT SAFETY NOTE: Products marked with a  have special characteristics important to safety. Before replacing any of these components, read carefully the product safety notice in this service manual. Don't degrade the safety of the product through improper servicing.

COMPARISON OF MODELS

Model	Mark
DV-SL80	A
DV-SL80X	B

Ref. No.	Mark	Description	Part No.	Code
A1X		FRONT ASSEMBLY E5946AD	9HS1VM220070	AX
A13		FOOT(REAR) E5710UD	9HS0VM415007	AC
A15	A	CHASSIS(V0) E5942HD	9HS0VM204660	AQ
A15	B	CHASSIS(V0) E5946AD	9HS0VM204661	AQ
A16		CASE, TOP E5 PLASTIC	9HS0VM306830	AS
A21 	A	LABEL,MODEL NO. E5943PD	-----	--
A21 	B	LABEL,MODEL NO. E5946AD	-----	--
A22	A	LABEL, BAR CODE E5943PD	-----	--
A22	B	LABEL, BAR CODE E5946AD	-----	--
1B1		DVD MECHA(FG LESS) 0838 VCZL0500	9HSN79F0HVM	BS
2B5		REINFORCE PLATE E5 PLASTIC	9HS0VM306575	AF
2L011		SCREW, P-TIGHT 3X10 BIND HEAD+	9HSGBEP3100	AA
2L021		SCREW, P-TIGHT 3X11 BIND HEAD+	9HSGBMP3110	AA
2L031		P-TIGHT SCREW 3X8 BIND +	9HSGBMP3080	AA
2L041		SCREW, B-TIGHT M3X8 BIND HEAD +	9HSGBKB3080	AA
2L081		SCREW, P-TIGHT M3X8 WASHER+	9HSGCMP3080	AA
2L105		P-TIGHT SCREW 3X8 BIND +	9HSGBMP3080	AA
S1	A	GIFT BOX CARTON E5943PD	9HS0VM306958	AV
S1	B	GIFT BOX CARTON E5946AD	9HS0VM306957	AV
S2	A	SIDE PAD E5940CD	9HS0VM101366	AG
S2	B	SIDE PAD(UK) E5914BD	9HS0VM101379	AG
S4		UNIT, BAG E5500UD	9HS0VM411683	AC
X1		REMOTE CONTROL UNIT DVD 0364 VCZF05EE	9HSNA533ED	AY
X2		DRY BATTERY R6P/2S	9HSB0M451T0001	AE
X4		ACCESSORY BAG E5700UD	9HS0VM415576	AC
X5		AV CORD	9HSX1E56B5-001	AL
X10 	A	OWNER'S MANUAL E5942HD	9HS0VMN04100	AH
X10 	B	OWNER'S MANUAL E5946AD	9HS0VMN04099	AH

ELECTRICAL PARTS LIST

PRODUCT SAFETY NOTE: Products marked with a \triangle have special characteristics important to safety. Before replacing any of these components, read carefully the product safety notice in this service manual. Don't degrade the safety of the product through improper servicing.

NOTES:

- Parts that not assigned part numbers (-----) are not available.
- IC103 is not supplied separately. Be sure to replace with the DVD Main CBA unit when servicing IC103.
- Tolerance of Capacitors and Resistors are noted with the following symbols.

C..... $\pm 0.25\%$ D..... $\pm 0.5\%$ F..... $\pm 1\%$ G..... $\pm 2\%$ J..... $\pm 5\%$ K..... $\pm 10\%$
M..... $\pm 20\%$ N..... $\pm 30\%$ Z..... $+80/-20\%$

COMPARISON OF MODELS

Model	Mark
DV-SL80	A
DV-SL80X	B

DVD MAIN CBA UNIT

Ref. No.	Mark	Description	Part No.	Code
	A	DVD MAIN CBA UNIT	9HSN79S2HHP	BU
	B	DVD MAIN CBA UNIT	9HSN79S4HAP	BU
		Consists of the following		
CAPACITORS				
C101		CHIP CERAMIC CAP.(1005) F Z 0.1 μ F/16V	9HSHB1CZ30F104	AA
C102		CHIP CERAMIC CAP.(1005) F Z 0.1 μ F/16V	9HSHB1CZ30F104	AA
C103		CHIP CERAMIC CAP.(1005) F Z 0.1 μ F/16V	9HSHB1CZ30F104	AA
C104		CHIP CERAMIC CAP.(1005) F Z 0.1 μ F/16V	9HSHB1CZ30F104	AA
C105		CHIP CERAMIC CAP.(1005) F Z 0.1 μ F/16V	9HSHB1CZ30F104	AA
C106		CHIP CERAMIC CAP.(1005) F Z 0.1 μ F/16V	9HSHB1CZ30F104	AA
C107		CHIP CERAMIC CAP.(1005) F Z 0.1 μ F/16V	9HSHB1CZ30F104	AA
C108		CHIP CERAMIC CAP.(1005) F Z 0.1 μ F/16V	9HSHB1CZ30F104	AA
C109		CHIP CERAMIC CAP.(1005) F Z 0.1 μ F/16V	9HSHB1CZ30F104	AA
C110		CHIP CERAMIC CAP.(1005) F Z 0.1 μ F/16V	9HSHB1CZ30F104	AA
C111		CHIP CERAMIC CAP.(1005) F Z 0.1 μ F/16V	9HSHB1CZ30F104	AA
C112		CHIP CERAMIC CAP.(1005) F Z 0.1 μ F/16V	9HSHB1CZ30F104	AA
C113		CHIP CERAMIC CAP.(1005) F Z 0.1 μ F/16V	9HSHB1CZ30F104	AA
C114		CHIP CERAMIC CAP.(1005) F Z 0.1 μ F/16V	9HSHB1CZ30F104	AA
C116		CHIP CERAMIC CAP.(1005) F Z 0.1 μ F/16V	9HSHB1CZ30F104	AA
C117		CHIP CERAMIC CAP.(1005) F Z 0.1 μ F/16V	9HSHB1CZ30F104	AA
C118		CHIP CERAMIC CAP.(1005) F Z 0.1 μ F/16V	9HSHB1CZ30F104	AA
C119		CHIP CERAMIC CAP.(1005) F Z 0.1 μ F/16V	9HSHB1CZ30F104	AA
C120		CHIP CERAMIC CAP.(1608) B K 1 μ F/10V	9HSHD1AK30B105	AC
C121		CHIP CERAMIC CAP.(1005) F Z 0.1 μ F/16V	9HSHB1CZ30F104	AA
C122		CHIP CERAMIC CAP.(1005) B K 0.1 μ F/10V	9HSHB1AK30B104	AA
C123		CHIP ELECTROLYTIC CAP. 330 μ F/6.3V M(UD)	9HSA0K331NC182	AC
C124		CHIP CERAMIC CAP.(1005) F Z 0.1 μ F/16V	9HSHB1CZ30F104	AA
C125		CHIP CERAMIC CAP.(1005) F Z 0.1 μ F/16V	9HSHB1CZ30F104	AA
C126		CHIP CERAMIC CAP.(1005) F Z 0.1 μ F/16V	9HSHB1CZ30F104	AA
C127		CHIP CERAMIC CAP.(1005) F Z 0.1 μ F/16V	9HSHB1CZ30F104	AA
C128		CHIP CERAMIC CAP.(1005) F Z 0.1 μ F/16V	9HSHB1CZ30F104	AA
C129		CHIP CERAMIC CAP.(1005) F Z 0.1 μ F/16V	9HSHB1CZ30F104	AA
C130		CHIP CERAMIC CAP.(1005) F Z 0.1 μ F/16V	9HSHB1CZ30F104	AA
C131		CHIP CERAMIC CAP.(1005) F Z 0.1 μ F/16V	9HSHB1CZ30F104	AA
C134		CHIP CERAMIC CAP.(1005) F Z 0.1 μ F/16V	9HSHB1CZ30F104	AA
C135		CHIP CERAMIC CAP. F Z 4.7 μ F/16V(2012)	9HSHE1CZ30F475	AC
C136		CHIP ELECTROLYTIC CAP. 1000 μ F/6.3V M(UR)	9HSA0K102NC183	AD
C152		CHIP CERAMIC CAP.(1005) F Z 0.1 μ F/16V	9HSHB1CZ30F104	AA

Ref. No.	Mark	Description	Part No.	Code
C191		CHIP CERAMIC CAP.(1005) CH J 15pF/50V	9HSHB1JJ3CH150	AA
C192		CHIP CERAMIC CAP.(1005) CH J 22pF/50V	9HSHB1JJ3CH220	AA
C195		CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C196		CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C201		CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C202		CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C203		CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C207		CHIP CERAMIC CAP.(1005) B K 0.1μF/10V	9HSHB1AK30B104	AA
C208		CHIP CERAMIC CAP.(1005) B K 0.1μF/10V	9HSHB1AK30B104	AA
C210		CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C211		CHIP CERAMIC CAP.(1005) B K 0.1μF/10V	9HSHB1AK30B104	AA
C212		CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C215		CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C217		CHIP CERAMIC CAP.(1608) B K 1μF/10V	9HSHD1AK30B105	AC
C218		CHIP CERAMIC CAP.(1608) B K 1μF/10V	9HSHD1AK30B105	AC
C219		CHIP CERAMIC CAP.(1608) B K 1μF/10V	9HSHD1AK30B105	AC
C220		CHIP CERAMIC CAP.(1608) B K 1μF/10V	9HSHD1AK30B105	AC
C221		CHIP CERAMIC CAP.(1005) CH J 47pF/50V	9HSHB1JJ3CH470	AA
C222		CHIP CERAMIC CAP.(1005) B K 0.1μF/10V	9HSHB1AK30B104	AA
C223		CHIP CERAMIC CAP.(1005) B K 0.033μF/16V	9HSHB1CK30B333	AA
C224		CHIP CERAMIC CAP.(1005) CH J 47pF/50V	9HSHB1JJ3CH470	AA
C225		CHIP CERAMIC CAP.(1005) B K 0.1μF/10V	9HSHB1AK30B104	AA
C226		CHIP CERAMIC CAP.(1005) B K 0.1μF/10V	9HSHB1AK30B104	AA
C227		CHIP CERAMIC CAP.(1005) B K 0.1μF/10V	9HSHB1AK30B104	AA
C228		CHIP CERAMIC CAP.(1005) CH J 47pF/50V	9HSHB1JJ3CH470	AA
C229		CHIP CERAMIC CAP.(1005) CH J 47pF/50V	9HSHB1JJ3CH470	AA
C230		CHIP CERAMIC CAP.(1005) B K 0.018μF/25V	9HSHB1EK30B183	AA
C231		CHIP CERAMIC CAP.(1005) B K 5600pF/25V	9HSHB1EK30B562	AA
C232		CHIP CERAMIC CAP.(1005) B K 0.01μF/25V	9HSHB1EK30B103	AA
C233		CHIP CERAMIC CAP.(1005) B K 0.01μF/25V	9HSHB1EK30B103	AA
C234		CHIP CERAMIC CAP.(1005) B K 560pF/50V	9HSHB1JK30B561	AA
C237		CHIP CERAMIC CAP.(1005) B K 0.1μF/10V	9HSHB1AK30B104	AA
C238		CHIP CERAMIC CAP.(1005) B K 0.1μF/10V	9HSHB1AK30B104	AA
C239		CHIP CERAMIC CAP.(1005) B K 0.1μF/10V	9HSHB1AK30B104	AA
C250		CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C253		CHIP ELECTROLYTIC CAP. 47μF/6.3V M(WR)	9HSA0K470NC180	AC
C255		CHIP ELECTROLYTIC CAP. 4.7μF/25V M(WX)	9HSA1E4R7NC181	AB
C257		CHIP CERAMIC CAP.(1608) B K 1μF/10V	9HSHD1AK30B105	AC
C259		CHIP CERAMIC CAP.(1608) B K 1μF/10V	9HSHD1AK30B105	AC
C263		CHIP ELECTROLYTIC CAP. 47μF/6.3V M(WR)	9HSA0K470NC180	AC
C280		CHIP CERAMIC CAP.(1005) B K 0.1μF/10V	9HSHB1AK30B104	AA
C281		CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C284		CHIP CERAMIC CAP.(1005) B K 6800pF/25V	9HSHB1EK30B682	AA
C288		CHIP CERAMIC CAP.(1005) B K 0.047μF/16V	9HSHB1CK30B473	AA
C289		CHIP CERAMIC CAP.(1005) B K 0.047μF/16V	9HSHB1CK30B473	AA
C301		CHIP CERAMIC CAP.(1005) B K 0.1μF/10V	9HSHB1AK30B104	AA
C302		CHIP CERAMIC CAP.(1005) B K 820pF/50V	9HSHB1JK30B821	AA
C303		CHIP CERAMIC CAP.(1005) CH J 68pF/50V	9HSHB1JJ3CH680	AA
C305		CHIP CERAMIC CAP.(1005) B K 6800pF/25V	9HSHB1EK30B682	AA
C308		CHIP CERAMIC CAP.(1005) B K 0.039μF/16V	9HSHB1CK30B393	AA
C310		CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C311		CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C313		CHIP CERAMIC CAP.(1005) CH J 220pF/50V	9HSHB1JJ3CH221	AA
C314		CHIP CERAMIC CAP.(1005) B K 3300pF/50V	9HSHB1JK30B332	AA
C315		CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C316		CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C317		CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C318		CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C324		CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C325		CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C326		CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C327		CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C328		CHIP CERAMIC CAP.(1005) CH J 150pF/50V	9HSHB1JJ3CH151	AA
C329		CHIP CERAMIC CAP.(1005) CH J 150pF/50V	9HSHB1JJ3CH151	AA
C402		CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C403		CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C405		CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C410		CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C411		CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA

Ref. No.	Mark	Description	Part No.	Code
C412		CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C416		CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C417		CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C418		CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C421		CHIP CERAMIC CAP.(1005) CH J 47pF/50V	9HSHB1JJ3CH470	AA
C422		CHIP CERAMIC CAP.(1005) CH J 47pF/50V	9HSHB1JJ3CH470	AA
C423		CHIP CERAMIC CAP.(1005) CH J 47pF/50V	9HSHB1JJ3CH470	AA
C424		CHIP CERAMIC CAP.(1005) CH J 47pF/50V	9HSHB1JJ3CH470	AA
C425		CHIP CERAMIC CAP.(1005) CH J 47pF/50V	9HSHB1JJ3CH470	AA
C426		CHIP CERAMIC CAP.(1005) CH J 47pF/50V	9HSHB1JJ3CH470	AA
C471		CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C472		CHIP CERAMIC CAP. F Z 1μF/10V	9HSHD1AZ30F105	AB
C501		CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C502		CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C503		CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C504		CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C505		CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C506		CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C507		CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C508		CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C509		CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C510		CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C511		CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C512		CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C514		CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C561		CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C601		CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C602		CHIP ELECTROLYTIC CAP. 330μF/6.3V M (UR)	9HSA0K331NC183	AC
C605		CHIP ELECTROLYTIC CAP. 47μF/6.3V M(WR)	9HSA0K470NC180	AC
C606		CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C608		CHIP CERAMIC CAP.(1005) CH D 10pF/50V	9HSHB1JD3CH100	AA
C609		CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C610		CHIP CERAMIC CAP.(1005) B K 0.01μF/25V	9HSHB1EK30B103	AA
C611		CHIP CERAMIC CAP.(1005) B K 0.01μF/25V	9HSHB1EK30B103	AA
C619		CHIP CERAMIC CAP.(1005) CH J 22pF/50V	9HSHB1JJ3CH220	AA
C620		CHIP CERAMIC CAP.(1005) CH J 22pF/50V	9HSHB1JJ3CH220	AA
C621		CHIP CERAMIC CAP.(1005) CH J 22pF/50V	9HSHB1JJ3CH220	AA
C622		CHIP CERAMIC CAP.(1005) CH J 22pF/50V	9HSHB1JJ3CH220	AA
C624		CHIP CERAMIC CAP.(1005) B K 1000pF/50V	9HSHB1JK30B102	AA
C658		CHIP ELECTROLYTIC CAP. 100μF/6.3V M(WR)	9HSA0K101NC180	AC
C901		CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C902		CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C904		CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C905		CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C910		CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C913		CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C914		CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C915		CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C916		CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C917		CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C918		CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
C919		CHIP CERAMIC CAP.(1005) F Z 0.1μF/16V	9HSHB1CZ30F104	AA
CONNECTORS				
CN201		FFC CONNECTOR 20P 9611S-20Y916	9HSC96D20ER014	AD
CN301		FFC/FPC CONNECTOR 6P 04 6232 106 102 800	9HSC62D06TM002	AD
CN401		FFC/FPC CONNECTOR 22P 04 6232 122 102 800	9HSC62D22TM002	AE
CN601		FFC CONNECTOR 16P 9611S-16Y914	9HSC96D16ER013	AD
DIODE				
D204		SWITCHING DIODE DAN202U T106	9HSD1Z0DAN202U	AC
ICs				
IC101		DVD 1CHIP LSI MN35201	9HSSZBA0RMS024	BE
IC103		16M MIRROR FLASH MEMORY MBM29LV160BM90TN	9HSSZBA0RFJ034	AU
IC201		1CIRCUIT ANALOG SWITCH NC7SB3157P6X	9HSSZBA0TF3063	AE
IC202		OPAMP LM324PWR	9HSSZBA0TTY140	AD
IC301		ACTUATER DRIVER SA5694	9HSSZBA0T0S002	AM
IC461		IC:RESET IC-PST3229NR	9HSSZBA0TMM093	AD
IC462		SYSTEM RESET IC BMR-110529	9HSSZBA0TKK002	AD
IC503		IC SDRAM K4S641632H-UC75	9HSSZBA0RSM050	AZ
IC601		IC(AUDIO D/A) PCM1755DBQR	9HSSZBA0TTY133	AH

Ref. No.	Mark	Description	Part No.	Code
COILS				
L104		CHIP BEAD MMZ1608Y121CT	9HSL06001TE004	AB
L106		CHIP RES.(1608) 1/10W 0 Ω	9HSRXAJR5Z0000	AA
L107		CHIP RES.(1608) 1/10W 0 Ω	9HSRXAJR5Z0000	AA
L108		CHIP INDUCTOR LB2016T2R2M	9HSLC2R2MTU007	AC
L201		CHIP INDUCTOR LB2012T470M	9HSLC470MTU038	AC
L250		CHIP RES.(1608) 1/10W 0 Ω	9HSRXAJR5Z0000	AA
L401		CHIP BEAD MMZ1608D121CT	9HSL06001TE007	AB
L402		CHIP BEAD MMZ1608D121CT	9HSL06001TE007	AB
L403		CHIP BEAD MMZ1608D121CT	9HSL06001TE007	AB
L501		CHIP RES.(1608) 1/10W 0 Ω	9HSRXAJR5Z0000	AA
L561		CHIP RES.(1608) 1/10W 0 Ω	9HSRXAJR5Z0000	AA
L611		CHIP INDUCTOR BK1608HM102	9HSLC102NTU018	AA
L612		CHIP INDUCTOR BK1608HM102	9HSLC102NTU018	AA
L613		CHIP INDUCTOR BK1608HM102	9HSLC102NTU018	AA
L614		CHIP INDUCTOR BK1608HM102	9HSLC102NTU018	AA
L618		CHIP INDUCTOR BK1608LM152	9HSLC152NTU020	AA
TRANSISTORS				
Q251		CHIP TRANSISTOR KTC3875S-GR-RTK/P	9HSQ14KTC3875S	AB
Q252		CHIP TRANSISTOR KTA1504S-Y-RTK/P	9HSQ1YKTA1504S	AB
Q253		CHIP TRANSISTOR KTC3875S-GR-RTK/P	9HSQ14KTC3875S	AB
Q254		CHIP TRANSISTOR KTA1504S-Y-RTK/P	9HSQ1YKTA1504S	AB
RESISTORS				
R101		CHIP RES.(1005) 1/16W J 82 Ω	9HSRXGJR4Z0820	AA
R102		CHIP BEAD MMZ1608D121CT	9HSL06001TE007	AB
R106		CHIP RES.(1005) 1/16W J 300 Ω	9HSRXGJR4Z0301	AA
R107		CHIP RES.(1005) 1/16W J 220 Ω	9HSRXGJR4Z0221	AA
R108		CHIP RES.(1005) 1/16W J 220 Ω	9HSRXGJR4Z0221	AA
R109		CHIP RES.(1005) 1/16W J 220 Ω	9HSRXGJR4Z0221	AA
R110		CHIP INDUCTOR BK1608LL121	9HSLC121NTU019	AA
R112		CHIP RES.(1005) 1/16W F 30k Ω	9HSRXGFR4Z0303	AA
R113		CHIP RES.(1005) 1/16W F 30k Ω	9HSRXGFR4Z0303	AA
R114		CHIP RES.(1005) 1/16W F 20k Ω	9HSRXGFR4Z0203	AA
R116		CHIP RES.(1005) 1/16W J 100 Ω	9HSRXGJR4Z0101	AA
R120		CHIP RES.(1005) 1/16W J 6.8 Ω	9HSRXGJR4Z06R8	AA
R121		CHIP RES.(1005) 1/16W J 220 Ω	9HSRXGJR4Z0221	AA
R122		CHIP RES.(1005) 1/16W J 220 Ω	9HSRXGJR4Z0221	AA
R124		CHIP RES.(1005) 1/16W J 220 Ω	9HSRXGJR4Z0221	AA
R128		CHIP RES.(1005) 1/16W F 1.5k Ω	9HSRXGFR4Z0152	AA
R131		CHIP RES.(1005) 1/16W J 10k Ω	9HSRXGJR4Z0103	AA
R133		CHIP RES.(1005) 1/16W J 10k Ω	9HSRXGJR4Z0103	AA
R191		CHIP RES.(1005) 1/16W J 680 Ω	9HSRXGJR4Z0681	AA
R192		CHIP RES.(1005) 1/16W J 1M Ω	9HSRXGJR4Z0105	AA
R203		CHIP RES.(1005) 1/16W J 10k Ω	9HSRXGJR4Z0103	AA
R206		CHIP RES. (1005) 1/16W J 0 Ω	9HSRXGJR4Z0000	AA
R208		CHIP RES. (1005) 1/16W J 0 Ω	9HSRXGJR4Z0000	AA
R213		CHIP RES.(1005) 1/16W J 1k Ω	9HSRXGJR4Z0102	AA
R214		CHIP RES.(1005) 1/16W J 1k Ω	9HSRXGJR4Z0102	AA
R217		CHIP RES. (1005) 1/16W J 0 Ω	9HSRXGJR4Z0000	AA
R218		CHIP RES. (1005) 1/16W J 0 Ω	9HSRXGJR4Z0000	AA
R219		CHIP RES. (1005) 1/16W J 0 Ω	9HSRXGJR4Z0000	AA
R220		CHIP RES. (1005) 1/16W J 0 Ω	9HSRXGJR4Z0000	AA
R225		CHIP RES.(1005) 1/16W J 1k Ω	9HSRXGJR4Z0102	AA
R226		CHIP RES.(1005) 1/16W J 1k Ω	9HSRXGJR4Z0102	AA
R227		CHIP RES.(1005) 1/16W J 1k Ω	9HSRXGJR4Z0102	AA
R228		CHIP RES.(1005) 1/16W J 1k Ω	9HSRXGJR4Z0102	AA
R231		CHIP RES.(1005) 1/16W J 1k Ω	9HSRXGJR4Z0102	AA
R232		CHIP RES.(1005) 1/16W J 1k Ω	9HSRXGJR4Z0102	AA
R233		CHIP RES.(1005) 1/16W J 1k Ω	9HSRXGJR4Z0102	AA
R234		CHIP RES.(1005) 1/16W J 1k Ω	9HSRXGJR4Z0102	AA
R241		CHIP RES.(1005) 1/16W J 1k Ω	9HSRXGJR4Z0102	AA
R242		CHIP RES.(1005) 1/16W J 1k Ω	9HSRXGJR4Z0102	AA
R243		CHIP RES. (1005) 1/16W J 0 Ω	9HSRXGJR4Z0000	AA
R251		CHIP RES.(3216) 1/4W J 3.3 Ω	9HSRX4JR7Z03R3	AA
R252		CHIP RES.(1005) 1/16W J 2.2 Ω	9HSRXGJR4Z02R2	AA
R255		CHIP RES.(1005) 1/16W J 470 Ω	9HSRXGJR4Z0471	AA
R258		CHIP RES.(1005) 1/16W J 180 Ω	9HSRXGJR4Z0181	AA
R261		CHIP RES.(3216) 1/4W J 5.6 Ω	9HSRX4JR7Z05R6	AA
R262		CHIP RES.(1005) 1/16W J 2.2 Ω	9HSRXGJR4Z02R2	AA

Ref. No.	Mark	Description	Part No.	Code
R265		CHIP RES.(1005) 1/16W J 470 Ω	9HSRXGJR4Z0471	AA
R268		CHIP RES.(1005) 1/16W J 180 Ω	9HSRXGJR4Z0181	AA
R270		CHIP RES.(1005) 1/16W J 8.2k Ω	9HSRXGJR4Z0822	AA
R271		CHIP RES.(1005) 1/16W J 18k Ω	9HSRXGJR4Z0183	AA
R274		CHIP RES.(1005) 1/16W J 4.7k Ω	9HSRXGJR4Z0472	AA
R275		CHIP RES.(1005) 1/16W J 6.8k Ω	9HSRXGJR4Z0682	AA
R276		CHIP RES.(1005) 1/16W J 47k Ω	9HSRXGJR4Z0473	AA
R277		CHIP RES.(1005) 1/16W J 47k Ω	9HSRXGJR4Z0473	AA
R278		CHIP RES.(1005) 1/16W J 47k Ω	9HSRXGJR4Z0473	AA
R279		CHIP RES.(1005) 1/16W J 47k Ω	9HSRXGJR4Z0473	AA
R280		CHIP RES.(1005) 1/16W J 1k Ω	9HSRXGJR4Z0102	AA
R281		CHIP RES.(1005) 1/16W F 10k Ω	9HSRXGFR4Z0103	AA
R282		CHIP RES.(1005) 1/16W F 10k Ω	9HSRXGFR4Z0103	AA
R283		CHIP RES.(1005) 1/16W F 10k Ω	9HSRXGFR4Z0103	AA
R284		CHIP RES.(1005) 1/16W F 10k Ω	9HSRXGFR4Z0103	AA
R285		CHIP RES.(1005) 1/16W J 22k Ω	9HSRXGJR4Z0223	AA
R286		CHIP RES.(1005) 1/16W J 2.2k Ω	9HSRXGJR4Z0222	AA
R289		CHIP RES. (1005) 1/16W J 0 Ω	9HSRXGJR4Z0000	AA
R298		CHIP RES.(1005) 1/16W J 100 Ω	9HSRXGJR4Z0101	AA
R299		CHIP RES. (1005) 1/16W J 0 Ω	9HSRXGJR4Z0000	AA
R301		CHIP RES.(1005) 1/16W J 1.5k Ω	9HSRXGJR4Z0152	AA
R302		CHIP RES.(1005) 1/16W J 220 Ω	9HSRXGJR4Z0221	AA
R303		CHIP RES.(1005) 1/16W J 22k Ω	9HSRXGJR4Z0223	AA
R304		CHIP RES. (1005) 1/16W J 0 Ω	9HSRXGJR4Z0000	AA
R305		CHIP RES.(1005) 1/16W J 1k Ω	9HSRXGJR4Z0102	AA
R306		CHIP RES. (1005) 1/16W J 0 Ω	9HSRXGJR4Z0000	AA
R307		CHIP RES.(1005) 1/16W J 100 Ω	9HSRXGJR4Z0101	AA
R308		CHIP RES.(1005) 1/16W J 68k Ω	9HSRXGJR4Z0683	AA
R313		CHIP RES.(1005) 1/16W J 10k Ω	9HSRXGJR4Z0103	AA
R315		CHIP RES. (1005) 1/16W J 91k Ω	9HSRXGJR4Z0913	AA
R316		CHIP RES.(3216) 1/4W J 2.2 Ω	9HSRX4JR7Z02R2	AA
R317		CHIP RES.(3216) 1/4W J 2.2 Ω	9HSRX4JR7Z02R2	AA
R318		CHIP RES.(3216) 1/4W J 2.2 Ω	9HSRX4JR7Z02R2	AA
R319		CHIP RES.(3216) 1/4W J 2.2 Ω	9HSRX4JR7Z02R2	AA
R320		CHIP RES.(3216) 1/4W J 2.2 Ω	9HSRX4JR7Z02R2	AA
R321		CHIP RES.(3216) 1/4W J 2.2 Ω	9HSRX4JR7Z02R2	AA
R322		CHIP RES.(1005) 1/16W J 10k Ω	9HSRXGJR4Z0103	AA
R325		CHIP RES.(1005) 1/16W J 1k Ω	9HSRXGJR4Z0102	AA
R333		CHIP RES. (1005) 1/16W J 0 Ω	9HSRXGJR4Z0000	AA
R334		CHIP RES. (1005) 1/16W J 0 Ω	9HSRXGJR4Z0000	AA
R402		CHIP RES.(1005) 1/16W J 1k Ω	9HSRXGJR4Z0102	AA
R403		CHIP RES.(1005) 1/16W J 1k Ω	9HSRXGJR4Z0102	AA
R404		CHIP RES.(1005) 1/16W J 1k Ω	9HSRXGJR4Z0102	AA
R405		CHIP RES.(1005) 1/16W J 1k Ω	9HSRXGJR4Z0102	AA
R406		CHIP RES.(1005) 1/16W J 1k Ω	9HSRXGJR4Z0102	AA
R407		CHIP RES.(1005) 1/16W J 1k Ω	9HSRXGJR4Z0102	AA
R413		CHIP RES. (1005) 1/16W J 0 Ω	9HSRXGJR4Z0000	AA
R415		CHIP RES. (1005) 1/16W J 0 Ω	9HSRXGJR4Z0000	AA
R417		CHIP RES. (1005) 1/16W J 0 Ω	9HSRXGJR4Z0000	AA
R421		CHIP RES. (1005) 1/16W J 0 Ω	9HSRXGJR4Z0000	AA
R422		CHIP RES. (1005) 1/16W J 0 Ω	9HSRXGJR4Z0000	AA
R423		CHIP RES. (1005) 1/16W J 0 Ω	9HSRXGJR4Z0000	AA
R471		CHIP RES.(1005) 1/16W J 47k Ω	9HSRXGJR4Z0473	AA
R509		CHIP RES. (1005) 1/16W J 0 Ω	9HSRXGJR4Z0000	AA
R510		CHIP RES.(1005) 1/16W J 47k Ω	9HSRXGJR4Z0473	AA
R562		CHIP RES.(1005) 1/16W J 10k Ω	9HSRXGJR4Z0103	AA
R565		CHIP RES.(1005) 1/16W J 47 Ω	9HSRXGJR4Z0470	AA
R567		CHIP RES.(1005) 1/16W J 47 Ω	9HSRXGJR4Z0470	AA
R601		CHIP RES. (1005) 1/16W J 0 Ω	9HSRXGJR4Z0000	AA
R607		CHIP RES.(1005) 1/16W J 1k Ω	9HSRXGJR4Z0102	AA
R618		CHIP RES. (1005) 1/16W J 0 Ω	9HSRXGJR4Z0000	AA
R619		CHIP RES. (1005) 1/16W J 0 Ω	9HSRXGJR4Z0000	AA
MISCELLANEOUS				
X101		X'TAL SMD-49 27.000MHz	9HSXC276CDS002	AG

AV CBA + FUNCTION CBA

Ref. No.	Mark	Description	Part No.	Code
	A	AV CBA + FUNCTION CBA Consists of the following	9HS1VSA10081	BR
	A	AV CBA	9HS1VSA10081A	BR
	A	FUNCTION CBA	9HS1VSA10081B	AS
	B	AV CBA + FUNCTION CBA Consists of the following	9HS1VSA10069	BR
	B	AV CBA	9HS1VSA10069A	BR
	B	FUNCTION CBA	9HS1VSA10069B	AS

AV CBA

Ref. No.	Mark	Description	Part No.	Code
	A	AV CBA	9HS1VSA10081A	BR
	B	AV CBA Consists of the following	9HS1VSA10069A	BR
CAPACITORS				
C1001△		METALLIZED FILM CAP. 0.047μF/250V M	9HST2E473MS037	AC
C1003		CERAMIC CAP. B K 0.01μF/500V	9HSCD2JKP0B103	AD
C1004	A	ELECTROLYTIC CAP. 100μF/400V M	9HSA2H101NC084	AP
C1004	B	ELECTROLYTIC CAP. 33μF/400V M(L.Z)	9HSE2HMZATH330	AL
C1005	A	CERAMIC CAP. CH K 22pF/1KV	9HSCD3AKPCH220	AD
C1005	B	CERAMIC CAP. SL K 56pF/1KV	9HSCD3AKPSL560	AD
C1006△		SAFETY CAP. 2200pF/250V	9HSCN2EMPOE222	AD
C1007	A	ELECTROLYTIC CAP. 1000μF/6.3V M(105C)	9HSE0KMASDH102	AA
C1007	B	ELECTROLYTIC CAP. 1000μF/6.3V M	9HSE0KMASDL102	AC
C1009		ELECTROLYTIC CAP. 2200μF/6.3V	9HSE0KMASDL222	AE
C1010	A	CERAMIC CAP.(AX) CH J 100pF/50V	9HSA1J101TU008	AB
C1013		CERAMIC CAP.(AX) B K 3300pF/50V	9HSA1J332TU011	AB
C1014	A	ELECTROLYTIC CAP. 1000μF/6.3V M(105C)	9HSE0KMASDH102	AA
C1014	B	ELECTROLYTIC CAP. 1000μF/6.3V M	9HSE0KMASDL102	AC
C1017		CERAMIC CAP.(AX) Y M 0.01μF/16V	9HSCA1CMT0Y103	AA
C1018		ELECTROLYTIC CAP. 100μF/6.3V M	9HSE0KMASDL101	AB
C1021		CHIP CERAMIC CAP.(1608) B K 0.01μF/50V	9HSHD1JK30B103	AA
C1022		CHIP CERAMIC CAP.(1608) B K 0.01μF/50V	9HSHD1JK30B103	AA
C1029		CERAMIC CAP.(AX) X K 5600pF/16V	9HSCA1CKT0X562	AA
C1032		ELECTROLYTIC CAP. 10μF/16V M	9HSE1CMASDL100	AB
C1033		FILM CAP.(P) 0.022μF/50V J	9HSM1JJS00223	AB
C1034	A	ELECTROLYTIC CAP. 4700μF/6.3V SL	9HSE0KMZADL472	AE
C1034	B	ELECTROLYTIC CAP. 2200μF/6.3V	9HSE0KMASDL222	AE
C1035		ELECTROLYTIC CAP. 1000μF/16V M	9HSE1CMASDL102	AE
C1036		CHIP CERAMIC CAP.(1608) B K 0.01μF/50V	9HSHD1JK30B103	AA
C1037		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V	9HSHD1JZ30F104	AA
C1038		ELECTROLYTIC CAP. 470μF/6.3V M	9HSE0KMASDL471	AB
C1039		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V	9HSHD1JZ30F104	AA
C1047		FILM CAP.(P) 0.01μF/100V J	9HSM2AJS00103	AB
C1048		ELECTROLYTIC CAP. 220μF/16V M	9HSE1CMASDL221	AB
C1049		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V	9HSHD1JZ30F104	AA
C1201		ELECTROLYTIC CAP. 10μF/16V M	9HSE1CMASDL100	AB
C1202		ELECTROLYTIC CAP. 10μF/16V M	9HSE1CMASDL100	AB
C1205		CHIP CERAMIC CAP. CH J 220pF/50V	9HSHD1JJ3CH221	AA
C1206		CHIP CERAMIC CAP. CH J 220pF/50V	9HSHD1JJ3CH221	AA
C1207		CHIP CERAMIC CAP.(1608) CH J 47pF/50V	9HSHD1JJ3CH470	AA
C1208		CHIP CERAMIC CAP.(1608) CH J 47pF/50V	9HSHD1JJ3CH470	AA
C1221		ELECTROLYTIC CAP. 10μF/16V M	9HSE1CMASDL100	AB
C1222		ELECTROLYTIC CAP. 10μF/16V M	9HSE1CMASDL100	AB
C1223		CHIP CERAMIC CAP.(1608) CH J 1000pF/50V	9HSHD1JJ3CH102	AA
C1224		CHIP CERAMIC CAP.(1608) CH J 1000pF/50V	9HSHD1JJ3CH102	AA
C1245		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V	9HSHD1JZ30F104	AA
C1246		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V	9HSHD1JZ30F104	AA
C1247		ELECTROLYTIC CAP. 470μF/6.3V M	9HSE0KMASDL471	AB
C1249		ELECTROLYTIC CAP. 47μF/16V M H7	9HSE1CMASDL470	AB
C1250		CHIP RES.(1608) 1/10W 0 Ω	9HSRXAZR5Z0000	AA
C1351		CHIP CERAMIC CAP.(1608) B K 0.1μF/25V	9HSHD1EK30B104	AB
C1352		ELECTROLYTIC CAP. 47μF/6.3V M H7	9HSE0KMASSL470	AC
C1354		CHIP CERAMIC CAP.(1608) CH J 100pF/50V	9HSHD1JJ3CH101	AA
C1355		CHIP RES.(1608) 1/10W 0 Ω	9HSRXAZR5Z0000	AA

Ref. No.	Mark	Description	Part No.	Code
C1361		ELECTROLYTIC CAP. 220μF/6.3V M H7	9HSE0KMASSL221	AB
C1362	B	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V	9HSHD1JZ30F104	AA
C1394		ELECTROLYTIC CAP. 47μF/10V M	9HSE1AMASDL470	AB
C1395		ELECTROLYTIC CAP. 1000μF/6.3V M	9HSE0KMASDL102	AC
C1402		ELECTROLYTIC CAP. 470μF/6.3V M	9HSE0KMASDL471	AB
C1421		CHIP CERAMIC CAP.(1608) B K 0.01μF/50V	9HSHD1JK30B103	AA
C1422		CHIP CERAMIC CAP.(1608) B K 0.1μF/25V	9HSHD1EK30B104	AB
C1441		CHIP CERAMIC CAP.(1608) B K 0.33μF/10V	9HSHD1AK30B334	AC
C1442		ELECTROLYTIC CAP. 1000μF/6.3V M	9HSE0KMASDL102	AC
C1461		ELECTROLYTIC CAP. 1μF/50V M	9HSE1JMASDL010	AB
C1462		ELECTROLYTIC CAP. 470μF/6.3V M	9HSE0KMASDL471	AB
C1481		ELECTROLYTIC CAP. 1μF/50V M	9HSE1JMASDL010	AB
C1482		ELECTROLYTIC CAP. 470μF/6.3V M	9HSE0KMASDL471	AB
C1522		ELECTROLYTIC CAP. 10μF/16V M	9HSE1CMASDL100	AB
C1524		ELECTROLYTIC CAP. 100μF/6.3V M	9HSE0KMASDL101	AB
C1531		CHIP CERAMIC CAP.(1608) B K 0.01μF/50V	9HSHD1JK30B103	AA
C1532		ELECTROLYTIC CAP. 22μF/6.3V M H7	9HSE0KMASSL220	AB
C1533		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V	9HSHD1JZ30F104	AA
C1534		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V	9HSHD1JZ30F104	AA
C2001		ELECTROLYTIC CAP. 22μF/50V M	9HSE1JMASDL220	AB
C2002		ELECTROLYTIC CAP. 22μF/50V M	9HSE1JMASDL220	AB
C2003		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V	9HSHD1JZ30F104	AA
C2004		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V	9HSHD1JZ30F104	AA
C2031		ELECTROLYTIC CAP. 100μF/6.3V M	9HSE0KMASDL101	AB
C2032		CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V	9HSHD1JZ30F104	AA
C2034		CHIP CERAMIC CAP.(1608) CH J 1000pF/50V	9HSHD1JJ3CH102	AA
CONNECTORS				
CN1001		22P FFC AV PCB TO MAIN	9HSX1E5900-001	AD
CN1601		16P FFC AV PCB TO MAIN	9HSX1E5900-002	AD
CN2001		FMN CONNECTOR, TOP 6P 06FMN-BTRK	9HSCFNG06JG002	AC
DIODES				
D1001		RECTIFIER DIODE 1N4005	9HSDQZ001N4005	AB
D1002		RECTIFIER DIODE 1N4005	9HSDQZ001N4005	AB
D1003		RECTIFIER DIODE BA157	9HSDQZ000BA157	AB
D1004		RECTIFIER DIODE 1N4005	9HSDQZ001N4005	AB
D1005		RECTIFIER DIODE 1N4005	9HSDQZ001N4005	AB
D1006		SCHOTTKY BARRIER DIODE SB140	9HSDQZ000SB140	AC
D1008		SCHOTTKY BARRIER DIODE SB140	9HSDQZ000SB140	AC
D1011		RECTIFIER DIODE BA158	9HSDQZ000BA158	AB
D1012		SWITCHING DIODE 1N4148M	9HSDTZ01N4148M	AA
D1016		RECTIFIER DIODE BA157	9HSDQZ000BA157	AB
D1017		ZENER DIODE DZ-18BSBT265	9HSDTB00DZ18BS	AB
D1018		SWITCHING DIODE 1N4148M	9HSDTZ01N4148M	AA
D1022		SWITCHING DIODE 1N4148M	9HSDTZ01N4148M	AA
D1024		SWITCHING DIODE 1N4148M	9HSDTZ01N4148M	AA
D1025		SWITCHING DIODE 1N4148M	9HSDTZ01N4148M	AA
D1030		RECTIFIER DIODE FR202-B/P	9HSDQZ000FR202	AB
D1046		ZENER DIODE DZ-5.6BSCT265	9HSDTC0DZ5R6BS	AB
D1047		ZENER DIODE DZ-5.1BSAT265	9HSDTA0DZ5R1BS	AB
D1048		ZENER DIODE DZ-15BSAT265	9HSDTA0DZ15BS	AB
D1051		ZENER DIODE DZ-6.2BSBT265	9HSDTB0DZ6R2BS	AB
D1055		SWITCHING DIODE 1N4148M	9HSDTZ01N4148M	AA
D1058		SCHOTTKY BARRIER DIODE SB140	9HSDQZ000SB140	AC
D1059		RECTIFIER DIODE 1N4005	9HSDQZ001N4005	AB
D1070	A	ZENER DIODE DZ-33BSDT265	9HSDTD00DZ33BS	AB
D1073	A	SWITCHING DIODE 1N4148M	9HSDTZ01N4148M	AA
D1073	B	PCB JUMPER D0.6-P5.0	Not Used	AL
D1301		ZENER DIODE DZ-5.6BSBT265	9HSDTB0DZ5R6BS	AB
D2041		SWITCHING DIODE 1N4148M	9HSDTZ01N4148M	AA
D2042		SWITCHING DIODE 1N4148M	9HSDTZ01N4148M	AA
D2043		SWITCHING DIODE 1N4148M	9HSDTZ01N4148M	AA
D2044		SWITCHING DIODE 1N4148M	9HSDTZ01N4148M	AA
ICs				
IC1001		PHOTOCOUPLER LTV-817B-F	9HSPEB0LTV817F	AE
IC1002		VOLTAGE REGULATOR PQ070XZ5MZP	9HSSZBA0TSH034	AG
IC1006		IC:SHUNT REGULATOR KIA431-AT	9HSSZLA0TJY001	AE
IC1201		IC:OP AMP KIA4558P	9HSSZBA0SJY004	AE
IC1204	B	FIBER OPTIC TRANS.MODULE 0C-0805T*002	9HSWHHA00JD002	AL
IC1402		DRIVER FOR DVD MM1637XVBE	9HSSZBA0TMM102	AK

Ref. No.	Mark	Description	Part No.	Code
IC2001		FL DRIVER IC PT6313-S-TP	9HSSZBA0TG2006	AK
COILS				
L1001		LINE FILTER 50MH LF-4Z-E503	9HSLBG00ZKQ008	AE
L1007		CHOKE COIL 22 μ H-K	9HSLBD00PKV006	AB
L1008		PCB JUMPER D0.6-P5.0	9HSJW5.0T	AL
L1009		CHOKE COIL 22 μ H-K	9HSLBD00PKV006	AB
L1060		PCB JUMPER D0.6-P5.0	9HSJW5.0T	AL
L1350		INDUCTOR(100 μ H K) LAP02TA101K	9HSLAXKATTU101	AB
L1351		INDUCTOR(0.47 μ H K) LAP02TAR47K	9HSLAXKATTUR47	AB
L1401		CHIP INDUCTOR BK1608HM121-T	9HSLBC003TU051	AB
L1421		CHIP INDUCTOR BK1608HM121-T	9HSLBC003TU051	AB
L1441		CHIP INDUCTOR BK1608HM121-T	9HSLBC003TU051	AB
L1442		CHIP INDUCTOR BK1608HM121-T	9HSLBC003TU051	AB
L1461		CHIP INDUCTOR BK1608HM121-T	9HSLBC003TU051	AB
L1481		CHIP INDUCTOR BK1608HM121-T	9HSLBC003TU051	AB
L1521		CHOKE COIL 22 μ H-K	9HSLBD00PKV006	AB
L1522		CHIP RES.(1608) 1/10W 0 Ω	9HSRXAZR5Z0000	AA
L2001		PCB JUMPER D0.6-P5.0	9HSJW5.0T	AL
L2031		INDUCTOR(100 μ H K) LAP02TA101K	9HSLAXKATTU101	AB
TRANSISTORS				
Q1001		FET 2SK3566	9HSFWZ02SK3566	AH
Q1002		TRANSISTOR KTA1267(Y)	9HSQSY0KTA1267	AC
Q1003		TRANSISTOR KTC3199(GR)	9HSQS10KTC3199	AB
Q1004		TRANSISTOR KTC3199(Y)	9HSQSY0KTC3199	AC
Q1005		TRANSISTOR KTC3199(Y)	9HSQSY0KTC3199	AC
Q1008		TRANSISTOR KTC3199(GR)	9HSQS10KTC3199	AB
Q1011		TRANSISTOR KTC3203(Y)	9HSQSY0KTC3203	AC
Q1015		RES. BUILT-IN TRANSISTOR KRA110M	9HSQSZ0KRA110M	AB
Q1016		TRANSISTOR KTC3199(GR)	9HSQS10KTC3199	AB
Q1201		TRANSISTOR KTC3199(GR)	9HSQS10KTC3199	AB
Q1202		TRANSISTOR KTC3199(GR)	9HSQS10KTC3199	AB
Q1204		TRANSISTOR KTA1266(Y)	9HSQSY0KTA1266	AB
Q1351		TRANSISTOR KTC3199(GR)	9HSQS10KTC3199	AB
Q1352		TRANSISTOR KTC3199(GR)	9HSQS10KTC3199	AB
RESISTORS				
R1002		CHIP RES.(1608) 1/10W 0 Ω	9HSRXAZR5Z0000	AA
R1004		METAL OXIDE FILM RES. 1W J 150k Ω	9HSN01154ZU001	AA
R1005		CARBON RES. 1/4W J 1.5M Ω	9HSCX4JATZ0155	AA
R1006		CARBON RES. 1/4W J 1.5M Ω	9HSCX4JATZ0155	AA
R1008		CARBON RES. 1/4W J 560 Ω	9HSCX4JATZ0561	AA
R1010		CARBON RES. 1/4W J 3.9k Ω	9HSCX4JATZ0392	AA
R1011	A	METAL OXIDE FILM RES. 1W J 1.8 Ω	9HSN011R8ZU001	AB
R1011	B	METAL OXIDE FILM RES. 1W J 2.2 Ω	9HSN012R2ZU001	AB
R1013		CARBON RES. 1/4W J 1.2k Ω	9HSCX4JATZ0122	AA
R1014		CARBON RES. 1/4W J 1.8k Ω	9HSCX4JATZ0182	AA
R1015		CARBON RES. 1/4W J 1.2k Ω	9HSCX4JATZ0122	AA
R1016		CARBON RES. 1/6W J 22k Ω	9HSCX6JATZ0223	AA
R1019		CHIP RES.(1608) 1/16W F 680 Ω	9HSRXGFR5Z0681	AA
R1020	A	CHIP RES.(1608) 1/10W J 470 Ω	9HSRXAJR5Z0471	AA
R1020	B	CHIP RES.(1608) 1/10W J 1.8k Ω	9HSRXAJR5Z0182	AA
R1021	A	CHIP RES.(1608) 1/10W J 1k Ω	9HSRXAJR5Z0102	AA
R1021	B	CHIP RES.(1608) 1/10W J 4.7k Ω	9HSRXAJR5Z0472	AA
R1022		CHIP RES.(1608) 1/10W J 820 Ω	9HSRXAJR5Z0821	AA
R1023		CHIP RES.(1608) 1/16W F 2.2k Ω	9HSRXGFR5Z0222	AA
R1025		CHIP RES.(1608) 1/10W J 10k Ω	9HSRXAJR5Z0103	AA
R1029		CARBON RES. 1/6W J 100k Ω	9HSCX6JATZ0104	AA
R1032		CARBON RES. 1/4W J 1k Ω	9HSCX4JATZ0102	AA
R1034	A	PCB JUMPER D0.6-P5.0	9HSJW5.0T	AL
R1034	B	CARBON RES. 1/6W J 390k Ω	9HSCX6JATZ0394	AA
R1035		CARBON RES. 1/4W J 1k Ω	9HSCX4JATZ0102	AA
R1036		CARBON RES. 1/6W J 47k Ω	9HSCX6JATZ0473	AA
R1037	A	CARBON RES. 1/6W J 5.6k Ω	9HSCX6JATZ0562	AA
R1037	B	CARBON RES. 1/4W J 10k Ω	9HSCX4JATZ0103	AA
R1038		CARBON RES. 1/6W J 100k Ω	9HSCX6JATZ0104	AA
R1039		CARBON RES. 1/6W J 470k Ω	9HSCX6JATZ0474	AA
R1043		METAL OXIDE FILM RES. 1W J 2.7 Ω	9HSN012R7ZU001	AA
R1044		CHIP RES.(1608) 1/10W J 100k Ω	9HSRXAJR5Z0104	AA
R1059		CHIP RES.(1608) 1/10W J 10k Ω	9HSRXAJR5Z0103	AA
R1067		CHIP RES.(1608) 1/10W J 1k Ω	9HSRXAJR5Z0102	AA

Ref. No.	Mark	Description	Part No.	Code
R1068		CARBON RES. 1/6W J 820 Ω	9HSCX6JATZ0821	AA
R1069		CARBON RES. 1/4W J 560 Ω	9HSCX4JATZ0561	AA
R1072		CHIP RES.(1608) 1/10W J 680 Ω	9HSRXAJR5Z0681	AA
R1073		METAL OXIDE FILM RES. 2W J 33 Ω	9HSN02330ZU001	AB
R1074		RECTIFIER DIODE 1N4005	9HSDQZ001N4005	AB
R1075		CHIP RES. 1/16W F 10 Ω	9HSRXGFR5Z0100	AA
R1076		CHIP RES. 1/16W F 1k Ω	9HSRXGFR5Z0102	AA
R1077		CHIP RES.(1608) 1/10W 0 Ω	9HSRXAZR5Z0000	AA
R1078		CHIP RES.(1608) 1/10W J 22 Ω	9HSRXAJR5Z0220	AA
R1079		PCB JUMPER D0.6-P5.0	9HSJW5.0T	AL
R1080		CHIP RES.(1608) 1/10W J 22k Ω	9HSRXAJR5Z0223	AA
R1081		CHIP RES. 1/16W F 82 Ω	9HSRXGFR5Z0820	AA
R1082		CHIP RES.(1608) 1/10W 0 Ω	9HSRXAZR5Z0000	AA
R1083		CARBON RES. 1/4W J 2.2 Ω	9HSCX4JATZ02R2	AB
R1084		CHIP RES.(1608) 1/10W J 220k Ω	9HSRXAJR5Z0224	AA
R1085		CHIP RES.(1608) 1/10W J 6.8k Ω	9HSRXAJR5Z0682	AA
R1091		CHIP RES.(1608) 1/10W 0 Ω	9HSRXAZR5Z0000	AA
R1092		PCB JUMPER D0.6-P5.0	9HSJW5.0T	AL
R1095		CHIP RES.(2125) 1/8W J 0.1 Ω	9HSRX8R10HH005	AA
R1096	B	CARBON RES. 1/6W J 390k Ω	9HSCX6JATZ0394	AA
R1097	A	METAL OXIDE FILM RES. 3W J 150k Ω	9HSN03154ZU001	AA
R1205		CHIP RES.(1608) 1/16W F 20k Ω	9HSRXGFR5Z0203	AA
R1206		CHIP RES.(1608) 1/16W F 20k Ω	9HSRXGFR5Z0203	AA
R1207		CHIP RES.(1608) 1/10W J 8.2k Ω	9HSRXAJR5Z0822	AA
R1208		CHIP RES.(1608) 1/10W J 8.2k Ω	9HSRXAJR5Z0822	AA
R1209		CHIP RES. 1/16W F 30k Ω	9HSRXGFR5Z0303	AA
R1210		CHIP RES. 1/16W F 30k Ω	9HSRXGFR5Z0303	AA
R1211		CHIP RES.(1608) 1/10W 0 Ω	9HSRXAZR5Z0000	AA
R1212		CHIP RES.(1608) 1/10W 0 Ω	9HSRXAZR5Z0000	AA
R1221		CHIP RES.(1608) 1/10W J 100k Ω	9HSRXAJR5Z0104	AA
R1222		CHIP RES.(1608) 1/10W J 100k Ω	9HSRXAJR5Z0104	AA
R1223		CHIP RES.(1608) 1/10W J 470 Ω	9HSRXAJR5Z0471	AA
R1224		CHIP RES.(1608) 1/10W J 470 Ω	9HSRXAJR5Z0471	AA
R1225		CHIP RES.(1608) 1/10W J 1k Ω	9HSRXAJR5Z0102	AA
R1226		CHIP RES.(1608) 1/10W J 1k Ω	9HSRXAJR5Z0102	AA
R1227		CHIP RES.(1608) 1/10W J 220 Ω	9HSRXAJR5Z0221	AA
R1228		CHIP RES.(1608) 1/10W J 220 Ω	9HSRXAJR5Z0221	AA
R1236		CHIP RES.(1608) 1/10W J 2.2k Ω	9HSRXAJR5Z0222	AA
R1238		CHIP RES.(1608) 1/10W J 2.2k Ω	9HSRXAJR5Z0222	AA
R1240		CHIP RES.(1608) 1/10W J 100k Ω	9HSRXAJR5Z0104	AA
R1245		CHIP RES.(1608) 1/10W J 10 Ω	9HSRXAJR5Z0100	AA
R1351		CHIP RES.(1608) 1/10W J 2k Ω	9HSRXAJR5Z0202	AA
R1352		CHIP RES.(1608) 1/10W J 2.2k Ω	9HSRXAJR5Z0222	AA
R1353		CHIP RES.(1608) 1/10W J 2.2k Ω	9HSRXAJR5Z0222	AA
R1354		CHIP RES.(1608) 1/10W J 220 Ω	9HSRXAJR5Z0221	AA
R1355		CHIP RES.(1608) 1/10W J 75 Ω	9HSRXAJR5Z0750	AA
R1356		CHIP RES.(1608) 1/10W J 100k Ω	9HSRXAJR5Z0104	AA
R1366		CHIP RES.(1608) 1/10W 0 Ω	9HSRXAZR5Z0000	AA
R1392		CHIP RES.(1608) 1/10W J 1k Ω	9HSRXAJR5Z0102	AA
R1396		CHIP RES.(1608) 1/10W J 470 Ω	9HSRXAJR5Z0471	AA
R1397		CHIP RES.(1608) 1/10W J 470 Ω	9HSRXAJR5Z0471	AA
R1402		CHIP RES.(1608) 1/10W J 75 Ω	9HSRXAJR5Z0750	AA
R1421		CHIP RES. 1/10W F 160 Ω	9HSRXGFR5Z0161	AA
R1422		CHIP RES.(1608) 1/10W J 75 Ω	9HSRXAJR5Z0750	AA
R1441		CHIP RES. 1/10W F 160 Ω	9HSRXGFR5Z0161	AA
R1442		CHIP RES.(1608) 1/10W J 75 Ω	9HSRXAJR5Z0750	AA
R1443		CHIP RES.(1608) 1/10W J 75 Ω	9HSRXAJR5Z0750	AA
R1461		CHIP RES. 1/16W F 75 Ω	9HSRXGFR5Z0750	AA
R1462		CHIP RES.(1608) 1/10W J 75 Ω	9HSRXAJR5Z0750	AA
R1481		CHIP RES. 1/16W F 75 Ω	9HSRXGFR5Z0750	AA
R1482		CHIP RES.(1608) 1/10W J 75 Ω	9HSRXAJR5Z0750	AA
R1521		CHIP RES.(1608) 1/10W J 2.2k Ω	9HSRXAJR5Z0222	AA
R2001		CARBON RES. 1/6W J 10 Ω	9HSCX6JATZ0100	AA
R2002		CHIP RES.(1608) 1/10W J 68k Ω	9HSRXAJR5Z0683	AA
R2012		CHIP RES.(1608) 1/10W J 1k Ω	9HSRXAJR5Z0102	AA
R2013		CHIP RES.(1608) 1/10W J 1k Ω	9HSRXAJR5Z0102	AA
R2014		CHIP RES.(1608) 1/10W J 1k Ω	9HSRXAJR5Z0102	AA
R2015		CHIP RES.(1608) 1/10W J 1k Ω	9HSRXAJR5Z0102	AA
R2016		CHIP RES.(1608) 1/10W J 10k Ω	9HSRXAJR5Z0103	AA

Ref. No.	Mark	Description	Part No.	Code
R2031		CHIP RES.(1608) 1/10W J 6.8k Ω	9HSRXAJR5Z0682	AA
R2032		CHIP RES.(1608) 1/10W J 10k Ω	9HSRXAJR5Z0103	AA
R2033		CHIP RES.(1608) 1/10W J 22k Ω	9HSRXAJR5Z0223	AA
R2041		CHIP RES.(1608) 1/10W J 10k Ω	9HSRXAJR5Z0103	AA
R2042		CHIP RES.(1608) 1/10W J 10k Ω	9HSRXAJR5Z0103	AA
R2043		CHIP RES.(1608) 1/10W J 10k Ω	9HSRXAJR5Z0103	AA
R2044		CHIP RES.(1608) 1/10W J 10k Ω	9HSRXAJR5Z0103	AA
R2045		CHIP RES.(1608) 1/10W 0 Ω	9HSRXAZR5Z0000	AA
MISCELLANEOUS				
2L042	A	SCREW, S-TIGHT M3X8 BIND + CHROME	9HSGBMS3080	AA
2B1		HOLDER, F.I.P. E5900UD	9HS0VM416070	AQ
2B11	A	HEATSINK E5717QD	9HS0VM415264	AD
AC1001△	A	AC CORD PE8G2CG9G0A-055	9HSAE0162LW001	AG
AC1001△	B	AC CORD PS8B5SP1H0A-065	9HSA0192LW007	AP
F1001△		FUSE T1.6AL/250V	9HSAGC20BW3162	AC
FL2001		V.F.D. 7-BT-298N	9HSVFD150FT012	AR
FH1001		FUSE HOLDER MSF-015	9HSH01Z00LY001	AA
FH1002		FUSE HOLDER MSF-015	9HSH01Z00LY001	AA
J2647		CERAMIC CAP.(AX) CH J 680pF/50V	9HSA1J681TU008	AB
JK1202		RCA JACK(BLACK) MSP-251V-01 NI	9HSXRL010LY070	AC
JK1401		S TYPE JACK MDC-050V-2.4	9HSXEL040LY001	AE
JK1404		RCA JACK MSP-246V34-65NI-FELF	9HSXRL060LY082	AG
RM2001		REMOTE RECEIVER PIC-37043LU	9HSSESJRSKK039	AR
SA1001△		SURGE ABSORBER 470V+-10PER	9HSVQZ10D471KB	AC
T1001△	A	PULSE TRANSE 04741	9HSTT00ZPKT148	AF
T1001△	B	PULSE TRANS 04726	9HSTT00EPKT133	AF

FUNCTION CBA

Ref. No.	Mark	Description	Part No.	Code
	A	FUNCTION CBA	9HS1VSA10081B	AS
	B	FUNCTION CBA	9HS1VSA10069B	AS
		Consists of the following		
CONNECTOR				
CN2101		6P FFC AV PCB TO SW PCB	9HSX1E5900-005	AE
RESISTORS				
R2101		CHIP RES.(1608) 1/10W 0 Ω	9HSRXAZR5Z0000	AA
R2102		CHIP RES.(1608) 1/10W 0 Ω	9HSRXAZR5Z0000	AA
R2103		CHIP RES.(1608) 1/10W 0 Ω	9HSRXAZR5Z0000	AA
R2104		CHIP RES.(1608) 1/10W 0 Ω	9HSRXAZR5Z0000	AA
R2105		CHIP RES.(1608) 1/10W 0 Ω	9HSRXAZR5Z0000	AA
R2106		CHIP RES.(1608) 1/10W 0 Ω	9HSRXAZR5Z0000	AA
SWITCHES				
SW2101		TACT SWITCH KSM0614B	9HSST0101HH013	AB
SW2104		TACT SWITCH KSM0614B	9HSST0101HH013	AB
SW2105		TACT SWITCH KSM0614B	9HSST0101HH013	AB
SW2106		TACT SWITCH KSM0614B	9HSST0101HH013	AB
SW2107		TACT SWITCH KSM0614B	9HSST0101HH013	AB
SW2108		TACT SWITCH KSM0614B	9HSST0101HH013	AB

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